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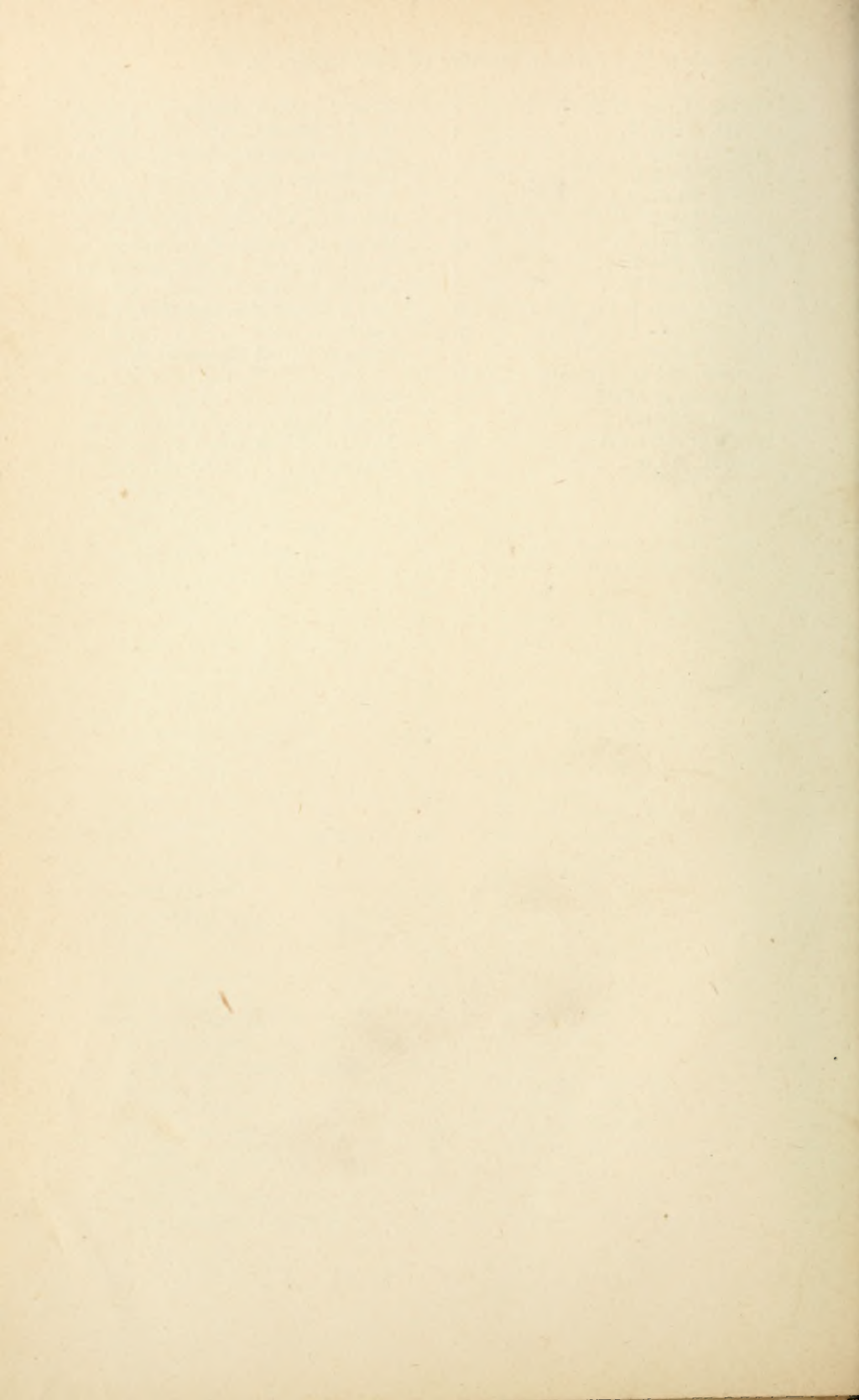
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FIELD COLUMBIAN MUSEUM

PUBLICATION 14

REPORT SERIES.

VOL. I, No. 2.

ANNUAL REPORT OF THE
DIRECTOR

TO THE

BOARD OF TRUSTEES

FOR THE YEAR 1895-96



CHICAGO, U. S. A.

October, 1896.

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ANNUAL REPORT OF THE DIRECTOR.

1895-1896.

To the Trustees and Members of Field Columbian Museum:

I have the honor to present a report of the operations of the Museum for the year closing September 30, 1896. The system of the Museum generally has been much improved during the past twelve months. Expenditures have been made more in the direction of classification than in re-installation; in working over old, rather than in purchasing new material, and in labeling, numbering and cataloguing specimens. While the work of the first year may be characterized as rushing and spasmodic, the labor of the second year has been even and steady. The number of department subordinates and clerks has been increased, but the pay roll of mechanics has been curtailed. Except in the lower ranks, there have been no changes in the personnel of the staff, and except as may be demanded by the further subdivisions of the departments, the Museum may be said, with respect to its salary roll, to be upon a permanent basis. Much of the crudeness of the original installation has disappeared during this year, producing greater harmony of method, and connecting divisions with closer regard for an intelligent and comprehensive scheme of installation. The great courts have been metamorphosed, not only providing requisite space for the growing collections of Archeology and Zoology, but substituting for an installation of the character of an exposition, an arrangement on museum lines. While the year has been a busy one, and the results satisfactory, yet considering the requirements, constantly growing in importance and increasing in number, the second year, like the first, seems to have demonstrated simply the necessity for still greater effort.

INCOME AND MAINTENANCE.—The Director's "income and maintenance" budget for the current year, estimated the income at \$71,576, and the expenses at \$101,220. These two estimates based upon those of the previous year, have naturally proven to have come nearer the actual figures than those of the first year, for which there was no precedent. But as the present budget provided for a sharp increase in the departmental force, the efforts made to bring the two sums

together have not been fully rewarded, as indeed was not expected, although a saving has been made in the budget, of \$14,530. By estimating the income and expenses of the four months to January 1st, the deficit for maintenance, it is found, will approximate \$15,000; *i. e.*, income \$72,250, expenditures \$86,690. It will be borne in mind in this connection, as was the case in the last report, that these figures do not include special cash donations, nor special appropriations, made by the Executive Committee, for material and permanent improvements.

THE MEMBERSHIPS.—Nominations for Annual Membership were made in very large numbers at the beginning of this year, and the total membership of this class now registered is 610. A large proportion of the old Annual Members are found upon this year's list, but the number of new names cannot be said to be very gratifying, although every effort has been made to secure an increased membership. Several Honorary Life Members have been elected by the Trustees: Mary D. Sturgès, Harlow N. Higinbotham, George M. Pullman, and Edward E. Ayer. Frederick J. V. Skiff, Willard A. Smith and W. I. Buchanan have been elected Patrons.

LECTURE COURSE.—Two series of lectures have been given since the last Annual Report, most of them being illustrated with stereopticon views. The fourth course comprised nine lectures:

Oct. 5.—“Cats and the Lands they Inhabit.”*

D. G. Elliot, Curator of Zoology, Field Columbian Museum.

Oct. 12.—“Living Pictures of Invertebrate Animals.”

A. H. Cole, University of Chicago.

Oct. 19.—“Edible and Poisonous Mushrooms.”

C. F. Millspaugh, Curator of Botany, Field Columbian Museum.

Oct. 26.—“A Chapter in the Early History of Chicago.”

O. C. Farrington, Curator of Geology, Field Columbian Museum.

Nov. 2.—“Structure and Natural History of Sharks.”

O. P. Hay, Asst. Curator of Ichthyology, Field Columbian Museum.

Nov. 9.—“On the Origin of Coal.”

H. W. Nichols, Curator of Economic Geology, Field Columbian Museum.

* Repeated by request.

Nov. 16.—“The Ethnology of the Japanese.”

S. Choyo, Commissioner of Fine Arts, Imperial Japanese Commission, World's Columbian Exposition.

Nov. 23.—“Archeology and Episodes of Travel in Mexico.”

W. H. Holmes, Curator of Anthropology, Field Columbian Museum.

Nov. 30.—“Development of Architecture in Mexico.”

W. H. Holmes.

Fifth course, given during the months of March and April:

March 7.—“The History of Coins.”

Sigmund Krausz, Chicago.

March 14.—“Mining in the Middle Ages.”

H. W. Nichols, Curator of Economic Geology, Field Columbian Museum.

March 21.—“The Oldest Known Bird.”

O. P. Hay, Assistant Curator of Ichthyology, Field Columbian Museum.

March 28.—“How Plants Travel.”

C. F. Millspaugh, Curator of Botany, Field Columbian Museum.

April 4.—“Masterpieces of Aboriginal American Art.”

W. H. Holmes, Curator of Anthropology, Field Columbian Museum.

April 11.—“The Evolution of Transportation.”

Willard A. Smith, Chicago.

April 11.—“The Illustration of Books.”

Edward L. Burchard, Librarian, Field Columbian Museum.

April 25.—“Caricature.”

John H. Finley, President Knox College.

The audiences vary greatly according to the weather, the approach to the Museum being at times so disagreeable, on account of wind or dust storms, as to prevent many from venturing out, but all things being taken into consideration, the attendance has been gratifying. The time for the lectures seems to be suitable, viz.: Saturday afternoon, at 3 o'clock, as probably a larger number of persons can conveniently attend then. A new set of lenses has been provided for the stereopticon, enabling the instrument to be placed at the rear

of the hall, where it does not obstruct the view. The Recorder now has on hand, classified by lectures, 634 slides, as follows:—

		Number of illus- trated lectures.	Whole number of lectures.
Anthropology	108 slides	3	7
Botany,	138 "	4	6
Geology,	122 "	4	12
Industrial Arts,	64 "	2	2
Library,	52 "	1	1
Zoology,	150 "	5	8

PUBLICATIONS.—The series of publications established in October, 1894, have been continued, and numbers have appeared at comparatively regular intervals. Below will be found the titles of those issued since October first last, with the number of pages and illustrations.

Pub. 5.—Zool. Ser., Vol. 1, No. 1. On the Structure and Development of the Vertebral Column of *Amia*. By O. P. Hay. 54 pages, edition 1,000, three lithographs in three colors, anatomical sections.

Pub. 6.—Rep. Ser., Vol. 1, No. 1. Annual Report of the Director, 79 pages, edition 3,000, no illustrations.

Pub. 7.—Zool. Ser., Vol. 1, No. 2. On Certain Portions of the Skeleton of the *Protostega Gigas*. By O. P. Hay. 8 pages, edition 1,000, two illustrations (one half tone and one zinc etching).

Pub. 8.—Anthropol. Ser., Vol. 1, No. 1, Pt. 1. Archeological Studies Among the Ancient Cities of Mexico. By W. H. Holmes. 137 pages, edition 1,250 of usual size and 200 copies edition de luxe, sixty-two illustrations (fourteen half tones and forty-eight zinc etchings).

Pub. 9.—Bot. Ser., Vol. 1, No. 2. The Flora of West Virginia. By C. F. Millspaugh and L. W. Nuttall. 209 pages, edition 1,000, two illustrations (one half tone and one zinc etching).

Pub. 10.—Ornith. Ser., Vol. 1, No. 1. Contribution to the Ornithology of San Domingo. By G. K. Cherrie. 26 pages, edition 1,000, no illustrations.

Pub. 11.—Zool. Ser., Vol. 1, No. 3. On Sundry Collections of Mammals received by the Field Columbian Museum. By D. G. Elliot. 17 pages, edition 1,000, ten plates of illustrations (half tones).

Pub. 12.—Zool. Ser., Vol. 1, No. 4. On Some Collections of Fishes.
By O. P. Hay. 16 pages (Combined with No. 13).

Pub. 13.—Zool. Ser., Vol. 1, No. 5. On the Skeleton of *Toxochelys Latremis*. By O. P. Hay. 8 pages, edition 1,000, two illustrations (zinc etchings). (Combined with No. 12.)

A fourth edition of the Guide (2,000 copies) was issued in August. As a third edition of the Guide was issued in March, 1895, the year that had elapsed saw unusual changes in installation; consequently the fourth edition of the Guide had to be almost entirely re-written.

In regard to the distribution of the publications, the table below shows the number and classes of foreign and domestic addresses. A comparison is also made with the number distributed last year;

OFFICIAL:	DOMESTIC.		FOREIGN.	
	1894-95	1895-96	1894-95	1895-96
Trustees	15	14	....	....
Staff	13	15	....	....
Corporate Members	56	53	....	....
Honorary Members . . . . .	....	3	....	....
Annual Members	723	757	....	....
GENERAL ADDRESSES:*				
Museums	16	5	58	42
Scientific Societies	62	37	43	45
Academies and Institutes . . . . .	....	....	15	15
Universities, Schools and Colleges	67	56	9	31
Libraries	122	62	2	28
Journals . . . . .	....	11	9	20
ADDRESSES IN SPECIAL SCIENCES:				
Anthropology	21	128	13	81
Botany	81	123	40	53
Geology	114	150	110	115
History	20	56	....	....
Industrial Arts	37	31	4	3
Ornithology . . . . .	....	19	....	12
Zoology	16	93	23	68
Total Addresses:	1,363	1,613	326	512

The distribution to foreign countries is accomplished through the Bureau of International Exchanges of the Smithsonian Institution. In addition to the printed requests for exchanges transmitted with the Museum literature, about 350 personal letters have been

* Museums, Societies, Academies, etc., devoted to one science are classified in the next section with special sciences.

prepared and sent out requesting exchanges of particular publications. Responses have always been courteous and in nearly all instances favorable, so that the reading room of the Library is now assured of a permanent and valuable series of current periodicals, such as transactions, memoirs, journals, proceedings, etc., of the principal publishing scientific bodies of the world.

LIBRARY.—During the fiscal year there have been added to the Library 687 bound volumes and 1,148 pamphlets and unbound volumes, making a total of 1,835 titles. This compares very favorably with the growth of the Library for the preceding years, although the total number added in 1894-95 was 2,411, and in 1893-94, the opening year of the Library, 7,139, but both these years saw the acquisition of several large collections. The number of donations has materially increased; attributable, of course, to the rapidly growing exchange list of the Museum. A list of the accessions to the Library accompanies this report. The number of accessions would indicate the present size of the Library were it not for the fact that two collections of engineering and railroad literature which were loaned to the Museum, have been returned to their owners. Subtracting these collections from the total, gives 10,635 titles at present in the Library, not including some 3,000 pamphlets bound in cheap bindings. The Museum is also in constructive possession of the ornithological library of Mr. Edward E. Ayer, consisting of about 400 valuable works, which he has recently presented to the Museum and which will be added to the catalogue this winter. In order that the staff of the Museum might avail itself in the most convenient manner of the scientific literature on the shelves of other Chicago libraries, co-operative arrangements have been made as far as possible with those libraries by which their books can be used at the Museum. The Chicago Public Library allows its reference or other works to be drawn out upon the requisition of the Museum Librarian and delivers them at a neighboring Delivery and Reading Station. The John Crerar Library promises a duplicate printed copy of its card catalogue and has indicated its willingness to buy scientific literature specially desired by the Museum. The University of Chicago Library has been extensively used by the staff of the Museum, and many courtesies have been extended and future facilities promised. The three largest scientific libraries of the city are thus in effective co-operation with the Museum. The Library, young as it is, cannot, of course, pretend to have a full quota even of the necessary books, and the fact needs to be emphasized that special literature, descriptive of scientific species

and collections, and of geographic regions or sources of specimen supply, as well as the most modern manuals are the most important permanent accessories to specimens themselves, and are indispensable for reference, to a progressive working staff. The Curators complain that they are unable to do the careful scientific work required of them owing to the fact that the effective descriptive literary tools are not provided. Although, as far as possible resources of other Libraries are being drawn upon, it yet remains to be said that each department of the Museum needs a still larger complement of specialized scientific books for constant reference. As the routine work of the Library is being performed by one assistant, the large amount of cataloguing to be done progresses slowly. A type-written card catalogue shelf-list is kept up to date and arranged by subjects so that the resources of the Library on any specific subject can be given. A carefully studied subject catalogue, which will give cross references to the minor matter in collective books, has already been begun. The author catalogue, comprising some 12,000 titles, has been completed and is in use. All of the literature on the shelves of the Library and belonging to the Museum, has been stamped with the Library seal. Twenty-eight periodicals which would otherwise have been subscribed for are now received regularly in exchange. The number of periodicals subscribed for is 47. The total number of books in the Department Libraries is as follows: Department of Geology, 1,190 and 1,100 pamphlets. Department of Ornithology, 368. Department of Botany, 163. Department of Zoology, 169. Department of Anthropology, 88. Total deposited in Departments—Books and pamphlets, 3,078. No record of the use of these books is kept by the Librarian.

RECORDS.—The accession catalogues have been carried on as described in the Report of last year, with the exception that two new books have been opened, one for the Department of Monographic Collections, the other for the Section of Photography. Great inconvenience was caused by the lack of catalogues accompanying the collections received at the inception of the Museum. At present for each new accession either catalogues are obtained from the sender or the Curators prepare catalogues of the material upon receipt. These are then filed and jacketed for future use. The total number of such descriptive papers, letters, documents, etc., now in the Recorder's files reaches 9,426. Each paper filed receives its individual number, and cannot be withdrawn from the Recorder's office without written receipt. The Recorder, who acts as Custom House Agent for the Museum, has cleared through the Custom House about 30

consignments of material from foreign ports. In this connection, acknowledgment should be made to the Foreign Office of Messrs. Marshall Field & Company for continued and courteous assistance.

DEPARTMENTAL CATALOGUE, INVENTORY AND LABELING.—The cataloguing of specimens in the Department Inventories is progressing rapidly, and in some Departments has been completed. In the Department of Anthropology, the numbering, cataloguing and labeling of the collections has been interrupted during the year by other more essential work, but large numbers of specimens have been identified and catalogued, the card system being used in the preliminary work as a matter of convenience. Much advance has been made in the work of labeling, attention having first been given to general descriptive, group, and case labels. A most important feature of this work is being carried out in the Egyptian Section, where Mr. J. H. Breasted, Egyptologist of the Chicago University, is engaged in translating the numerous hieroglyphic texts of papyri, grave tablets, scarabs, mummies, etc. The results will first be applied to the writing of detailed labels for the collections, and afterward to the preparation of a guide. The appointment of George A. Dorsey of Cambridge as Assistant Curator in Charge of Physical Anthropology, has made it possible to proceed with the work of identifying and cataloguing the material in this important division. The Department of Botany has all records of material completed and all specimens numbered and labeled. This not only applies to the case specimens, but also to those stored away as duplicates. Specific classification is far from complete, however, and descriptive label writing is only begun. The Curator of Geology has catalogued the entire paleontological collection, and new material is now disposed of upon arrival. The work of replacing the temporary by printed descriptive labels has been carried forward as opportunity permitted, and enough has been done in this direction to add largely to the popular interest in the material. In Economic Geology, the year has been marked by the most patient and steady devotion to cataloguing and labeling. As a result, the records of the Department are in excellent condition, and descriptive labels have been attached to specimens so generally that the Department is assuming a finished appearance. In addition to the labels on individual specimens, large labels have been provided for each class. The work in the Department of Zoology, except Ornithology, has not been active, owing to the absence of its Curator in Africa, but gratifying headway has been made in cataloguing. A large number of descriptive framed labels have been provided for Halls 19 and 20 and for

the mammals in the West Court, and the purchasing lists of three large shell collections have been compared with the material and corrected preparatory to inventory. The entire collection in the Department of Ornithology has been catalogued, something over 1,000 skins having been recorded quite recently. Labels have been written for all the mounted birds. The Department of Industrial Arts has finished its card catalogue and Inventory, and reports that only a very few labels are lacking. Owing to the demands of his regular duties, the Recorder who has charge of the Department of Columbus Memorial, has done little in Memorial Hall this year except to replace new for old labels. The catalogue was completed in 1895. The important work to be done is the numbering of the pictures to correspond with the original Exposition inventory. When all the material is identified and numbered correctly, it will be possible to print a hand-book to the collection, the manuscript of which is now in possession of the Museum, and which would add greatly to interest in the collection.

The year's work in the Museum on catalogues and inventories is shown in detail :

	No. of Record Books.	Total No. of entries to Oct. 1, 1896.	Entries between 1895-6.	Total No. of Cards Written.
Anthropology,	11	9,089	9,089	13,200
Botany,	10	11,949	9,000	1,000
Geology,	7	13,185	5,312	6,000
History,	2	1,514	—completed—	
Industrial Arts, . .	8	13,600	100	860
Monographic Col., .	2	202	202	
Zoology,	8	6,339	6,339	4,345
Library,	3	9,551	1,835	12,000
Section of Photog.,	1	997	997	

ACCESSIONS.—The accessions of material by gift, purchase and expedition have been large and valuable, and seem to have been rather evenly distributed among the different Departments, if the prevailing flattering estimate of the results of the African expedition be included. It is obviously impossible to discuss all of the many accessions, but some seem to demand a reference beyond the simple record. A number of noteworthy additions have been made to the Department of Anthropology. Special attention may be directed to the collections of Eskimo material brought from Northern Alaska by Miner W. Bruce. These include valuable fur costumes, implements and utensils pertaining to the native arts and industries, and many carvings in bone and ivory. It is expected that these will be utilized to some extent in setting up a group of figures illustrating the Alaskan

Eskimo. Students of the ancient peoples and arts of America will look with particular interest on certain acquisitions from Yucatan, and some examples of sculpture from the Valley of Mexico give an excellent idea of the achievements of the native races in this line. South America has yielded but little directly, although collections returned to the Museum from the Peabody Museum of Cambridge add greatly to the wealth of material from Peru and other Pacific Coast countries. The culture of the ancient Romans, already so well represented both by reproductions and original works, is further illustrated by a group of bronze objects of surpassing interest, recently obtained from a villa near Pompeii. The most remarkable of these objects are two bronze bath-tubs and a bronze table with circular top supported by legs imitating those of the lion. Among the most notable additions to the Egyptian collections is the magnificent series of stoneware, ranging in date from 3,000 years before Christ to a late period. The bronze sistrum presented by Dr. Keeley is a large and perfect specimen, and its inscriptions are of the greatest interest, showing it to have been used in the Temple of Ammon at Thebes. Among numerous other bronzes, a large statue of Osiris is worthy of special mention. A series of grave tablets and tombstones includes two large fragments of tomb tablet reliefs of exquisite workmanship, similar to pieces recently acquired and published by the Berlin Museum. A fine series of faience or blue glaze mortuary figurines is of interest, but is exceeded in importance by the coiled serpents in the same material, one of which is remarkable for size and color. Among the stone statues is a noticeable figure of Apet, executed in black basalt. From Asia the Department has secured three valuable marble images representing Buddhistic divinities. Many specimens from the mounds of the Mississippi River and the ancient copper mining district of upper Michigan collected by the Curator of the Department have been added to the archeological division. The Division of Physical Anthropology especially has been enriched by materials selected from collections now brought together for the first time, although in possession of the Museum before the current year. One collection made by D. Scott Moncrieff for the Columbian Exposition, consisted of four skeletons, several crania and an original burial package, containing three adult women and one girl, all in desiccated condition. As to this package, although the funeral garments are of European origin, the date of burial is probably about 1845, as with the bodies were a large quantity of the "Log-cabin" medals of the "Tippecanoe and Tyler too" campaign of 1840. The bodies, otherwise, were note-

worthy only for the pendant ear ornaments of coins, brass bells and dentalium shells. In the mouth of one individual were found twenty brass buttons. The acquisition of eight skeletons and several crania for the Division of Physical Anthropology is timely, for with this added material, the Department now possesses a fairly complete osteological collection of North-West Indians, the tribes well represented being: Kwakiutl, Salish, Songish, Kawitchin, Catlalty and Chinook. The Mound material from Ross County, Ohio, returned from study at Cambridge by the Chief of the Department of Anthropology of the Columbian Exposition, has been placed on view by the Museum this year. There were three notable and celebrated "finds" in Ohio Mounds: (a) that of Squier and Davis of two hundred carved effigy pipes at Mound City; (b) that of Professor Putnam of Cambridge of seven altars, each covered with countless objects of adornment and ceremony, at the Turner Group; and (c) that of Mr. Moorehead at the Hopewell Group. In the amount and beauty of symbolic carvings in copper, in the quantity of copper implements, in the number of bone carvings in which conventionalism and realism are blended in a most striking and artistic manner, and in the cache of unfinished implements numbering over 7,000, this collection far surpasses any hitherto made in the Mississippi Valley. There are also two valuable collections from Fort Ancient and Oregonia, Ohio. These are remarkable for the large number of skeletons which were in a good state of preservation. Among other material, new so far as its exhibition is concerned, are the collections made by G. A. Dorsey in 1892 in Peru, four of which should be specially mentioned: From La Plata Island, Ecuador, consisting of (a) fragments of ceremonial pottery and images from the summit of the Island, made by coast tribes of Ecuador, who resorted to the Island for centuries as a place of worship and ceremony; (b) contents of three graves near the beach, including gold and silver images and pins, beautiful pottery, and a remarkable ceremonial stone-axe. These objects are Peruvian in origin and their presence on the Island is to be explained by the fact that Ecuador was conquered and over-run by Incas of Peru shortly before the Spanish conquest; (c) from Santa Valley about 500 pieces of pottery of exquisite workmanship, and, taken collectively, portraying in a vivid manner the physiognomy, religion, industries, houses, and foods of the people; besides ceremonial sceptres and bone carvings inlaid with turquoise; (d) from Ancon, the contents of 125 graves, showing every form of burial and the complete life of individuals of both sexes, of all ages and of varying degrees of wealth. From the notes and labels of the collector each grave can

be reconstructed. From the osteological material of the Ancon exploration it is possible to make a full and complete investigation of the physical characteristics, so far as the skeleton is concerned, of the ancient inhabitants of this Necropolis. The most important Herbarium accessions to the Botanical Department this year, are the plants of the Gaumer collection purchased by the Museum, and the Mexican plants donated by Mr. Ryerson. The former are particularly valuable, as they maintain this special field for the Museum, and yield a large percentage of species entirely new to science. Mrs. Snyder has continued her enthusiastic interest in the welfare of this Department during the past year by additional contributions of plants collected by herself in the Californian region. Mr. Nuttall, of West Virginia, who co-operated with the Botanical Department in the preparation of its publication on the Flora of West Virginia, has exhibited his interest in the work of the Museum by sending specimens illustrating the flora of that state. Special significance should also be attached to the valuable material collected by the Curator as a beginning of the contemplated North American Forestry Collection. In this work a good start has been made, and much work outlined for the next collecting season. The Department of Geology has obtained a large collection of fossils illustrating the fauna of the Chicago beds during the Niagara period. This includes over five hundred specimens representing at least one hundred distinct species, many of them rare, and two as yet undescribed. These were gathered during a series of years by the late Dr. Kennicott, and include many of the best specimens so far obtained from the Bridgeport and Hawthorne localities. Other important accessions to the paleontological collection are a series of about sixty species of tertiary leaves from the Denver beds of South Table Mountain and Golden, Colorado; twenty species of Devonian plants from the Fern Ledges of St. John, N. B.; one hundred specimens of the Cretaceous fossils of Texas representing twenty distinct species; and a *Platoniceras* from Montana, nearly two feet in diameter, with sutures beautifully preserved. A relief map of France, four feet in diameter, a relief map of Northwestern Illinois and a series of seven relief maps of the continents and the world, are important additions to the geographic material already exhibited. To the mineral collection have been added a number of the rarer minerals of Mexico, such as Guanajuatite, Livingstonite, Bustanite, etc., obtained by exchange with the Mexican National School of Engineering, and some showy specimens of the better known minerals collected by the Curator of Geology. A series of remarkable Joplin,

Mo., calcite crystals, the crystals being six inches in length, nearly transparent and showing faces of two scalenohedrons in great perfection, are also valuable additions. The Meteorite Hall has received by exchange specimens of falls not heretofore represented. One of the most interesting accessions to the metallurgical collections is the series of specimens illustrating the toughening of cast iron, rendering it, to an extent, malleable. The Chief of the Division of Mineral Resources of the United States Geological Survey, Dr. David T. Day, who was in charge of the Mining Department at the Atlanta Exposition, remembered the Museum at the close of that event by sending an interesting series of nickel, magnesite and gold ores from Canada, South Carolina and California. A specimen of Crocidolite from Cape Town, South Africa, was donated by Mr. W. J. Chalmers. A specimen of Albertite from Utah, from W. H. Holmes represents a valuable mineral in a new locality. But by far the most important addition to the Economic Collections are the ores from Curator Farrington's Mexican Expedition. The silver ores are so numerous as to compel a complete rearrangement of the present collections of silver ores, which now represent all phases of the occurrence of silver in Mexico. There were secured interesting iron ores from the well-known Iron Mountain of Durango and examples of the little known tin and mercury deposits of Mexico. The Department of Zoology, except Ornithology, which in extent and character of material did not at the beginning rank with the other Departments of the Museum, has been brought to a higher standard of completeness during the past year by extensive acquisitions in all of its several divisions. Not so much attention has been devoted to the lower as to the higher invertebrates. The Aldis expedition to Florida brought in a quantity of sponges, crabs and molluscan forms. Mr. Allison V. Armour, of Chicago, has contributed a collection of 5,000 insects from Yucatan, gathered by Mr. Thompson. By the gift of Mr. Martin A. Ryerson, of Chicago, the Museum came into the possession of a superb collection of 700 lepidoptera from India. The molluscan collections have been considerably worked over and revised, and additions have been made where needed. In Ichthyology should be mentioned the gift of the National Museum of 105 species of fishes, and several gifts of reptiles are to be noted, including that of a boa constrictor presented by the Ringling Brothers. The efforts of the Department have been concentrated principally upon enlarging and upbuilding the mammalian collection. To this end, as previously stated, an expedition was sent to Africa, and large acquisitions are expected on the return of Curator Elliot.

Extensive purchases had previously been made of mammal skins and skulls representing principally the antelopes, monkeys and the felines. Purchases were also made of small mammals from California, the Price collection, which has since been described in a Museum Memoir by the Curator of the Department. Other countries, including Siberia, Africa, Japan and the West Indies, have contributed of their fauna to this division, while the gift of a fine giraffe by Ringling Brothers was a valuable donation. The collections in Ornithology have been increased very considerably during the past year, especially by the acquisition of valuable North American species. Some 230 species, chiefly from the vicinity about Chicago, have been added by the staff of the Department, and will be useful to the student of local fauna. The study collection has been further increased by about 1,500 specimens, representing thoroughly the birds of Cook County, Illinois, and also, in a lesser degree, the birds of the north coast of Texas. Collections gathered during the previous season are now in the hands of the Curator for study and preparation. Notable progress has been made, particularly in two sections of the Department of Industrial Arts—the textile and the ceramic. The ceramic room has been enriched by several purchases of old china gathered by the Museum's representative in the East, Mr. E. A. Barber, and illustrating the ware and art of the colonial period. From the same source has come a set of Wedgewood cameos and other art specimens. There has also been installed a loan collection of vases and ware from Mrs. Schimmelpfeng, of Chicago. French faience plates of considerable historical value were donated by Mr. Hawkins, of New Orleans, and by Mrs. Keeley a set of Rhoda and Damascus plates. To the series of machines and looms in the section of textiles has been added a fabric glove machine and an old hosiery loom. These were secured through the courtesy of Messrs. Marshall Field & Company, at Chemnitz, and were by gift from prominent manufacturers of that city. An interesting collection of Roman plaid textiles, mounted, was contributed by Mr. Henry H. Getty, who obtained them during his travels in Italy. Another attractive gift is that of 104 specimens of mounted laces, velvets and brocades, presented by Jesurum & Co., of Venice. By purchase has been acquired a collection of 500 mounted specimens of similar material, collected by Mr. Ayer while abroad. To fill out this section specimens of mummy cloths and primitive textiles have been transferred from the Department of Anthropology. Numismatics has grown steadily, the periods represented being from the beginning of the Christian era to a recent date. A set of fragments, supposed to be

copper coins, have been added to this section by gift of Mr. Ryerson. Among other additions to Higinbotham Hall may be specially mentioned antique snuff-boxes, a series of crystallized gold specimens, and gold jewelry from Egypt, while a large collection of gold ornaments from the United States of Colombia and silver ornaments from Bulgaria have been transferred from the Department of Anthropology. Mr. Cyrus H. McCormick presented to the Agricultural Implement section a set of Arabian plows and yoke plows, and seed-sowers from Palestine. In the section of Leathers a complete collection, illustrating the art of tanning, has been obtained of Tiffany & Company. In the division of Transportation may be noted, among the principal contributions, a large ancient cedar boat discovered in Egypt and presented to the Museum by Mrs. C. H. McCormick. A number of minor relics have been deposited in the Museum by Chicago gentlemen.

A detailed list of accessions and acknowledgments is presented elsewhere.

EXCHANGES.—One of the most profitable and satisfactory means of obtaining new material is by exchange. A large amount of duplicate material is in the possession of the Museum, especially in Economic Geology, Botany, and in several divisions of Anthropology and Zoology. Very gratifying arrangements have already been made with contemporaneous institutions by the Curators of Economic Geology and of Botany, and a number of desirable exchanges effected. During the year, all the duplicate material has been listed by Departments. This list will be published and sent to all institutions and individuals, collectors, etc., soliciting correspondence on the subject of the exchange of duplicates. The lists will probably be issued in December.

EXPEDITIONS AND FIELD WORK.—The most important expedition this year has been the commission to Africa, of D. G. Elliot, Curator of the Department of Zoology, except Ornithology. He was accompanied by C. E. Akeley, Chief Taxidermist of the Museum, and by Mr. Dodson of London who was with the Lake Rudolph expedition of Donaldson Smith. The departure from London was made March 27th, Aden was reached April 14th, and Berbera April 21st. At this latter point the caravan was organized, consisting of about 60 native guides, hunters and porters, with seventy-five camels and ponies. Start was made from Berbera April 30th, and at the time of the last written report, August 9th, the party was at Higlileh, Ogaden, proceeding toward Tug Turfa and toward Eur River, Long. 42.12 and Lat. 7.50. This is in the Galla country.

They expected then to go on to San Moretta, Long. 42.25 and Lat. 6.50—the giraffe country. A cable dated September 29th, reported the party safely at Aden on their return with a splendid collection. There can be no doubt that if the material reaches the Museum in good condition, the results will exceed all expectations. No detailed information as to the number or variety of skins obtained has been received. But that the quantity is ample may be gathered from Mr. Elliot's statement in June that it seemed "simply a question of transportation." The expedition has attracted a great deal of attention, and both the official and scientific reports and the popular narrative of its chief will be awaited with much interest. He will reach Chicago about December 1st, remaining probably in London several weeks to work over the material and identify species. C. F. Millspaugh, Curator of the Department of Botany, began his work this year on the Forestry of the Mississippi Valley. His work so far has been confined to the State of Mississippi and Southern Illinois, procuring photographs from species in leaf, timber specimens from the living trees, and leafing and flowering branches from the same individual. The trip will be repeated over the same territory this winter for trunk specimens, planks, boards and fruits. When this work is completed, as provided by the appropriation, the Museum will possess a very valuable collection of the timber-producing trees of the country, that, added to its foreign material, will constitute a notable forestry collection. The officials of the Illinois Central Railway are lending every possible aid. The work of the Department on the Flora of Yucatan commenced by the Curator in the winter of 1894-95 is being continued, in the field under instructions, by G. F. Gaumer, a resident of that State, and two consignments of very interesting and valuable plants have already been received. The Curator of Geology went on expedition to the Republic of Mexico in the winter of 1895-96. It was fruitful in results. The object of the trip was to obtain specimens illustrating volcanic and glacial phenomena, and the economic deposits. The expedition was largely made possible through the courtesy of the officials of the Mexican Central and A. T. & S. F. Railways. The Curator made a complete ascent of Popocatepetl and explored the crater and ascended Ixtaccihuatl far enough to permit a study of its glacier. A great many mineral specimens and ores were obtained and exchanges of material arranged for with institutions and individuals, resulting finally in the possession of an excellent representation of the minerals and ores of the Republic. Professor Farrington has prepared several lectures for the Museum course based on this expe-

dition that will be illustrated from photographs taken on the trip. In the past winter, G. K. Cherrie, Assistant Curator of Ornithology, spent three months collecting bird skins along the Gulf Coast between New Orleans and Corpus Christi, Texas. Nearly one thousand skins were added to the North American division of this Department. Mr. Cherrie has also made a number of excursions in the vicinity of Chicago collecting local material. Miner W. Bruce arrived May 7th from Alaska after nearly two years absence, with a collection of 1,200 or more specimens illustrating the arts and industries of the Eskimo of Alaska. He has returned again to the North with a commission to add further material and to extend his work into Siberia. During the past year, E. H. Thompson became associated with the Department of Anthropology and was assigned to work in Mexico. He has made a report on the recently examined ruins of Xkichmook, accompanied by specimens and photographs. He is now studying and mapping the ruins of Chichen-Itza, concluding which he will make investigations among the Mayas. President Ayer passed the winter in Egypt adding much valuable material to the archeologic collections from that country. He also secured numerous articles in bronze and glass from Italy, representing the culture of the ancient Romans. Vice-President Ryerson and Mr. C. L. Hutchinson, on their trip around the world, procured and presented to the Museum a large and unique amount of material, including Etruscan and Stone Age remains from Italy, Roman terra cottas, metal and stone work from the Indies, and butterflies from the Himalayas. Mr. Owen F. Aldis invited O. P. Hay, Assistant Curator of Ichthyology to accompany him on an excursion to the waters of Southern Florida. Nearly one hundred fine specimens were obtained, several of which, including a splendid tarpon, have been mounted. This contribution to the material of this division of Zoology has added much to the appearance of Hall 22.

INSTALLATION, RE-ARRANGEMENT AND PERMANENT IMPROVEMENTS.—

Estimated by its cost, the largest amount of material improvement has been made on the Building itself. By order of the Executive Committee, experts were secured to make recommendations that as far as possible would insure the safety and stability of the Building for at least five years. Acting upon these reports, the Executive Committee appointed a sub-committee, consisting of Mr. Owen F. Aldis and the Director to execute the recommendations of these experts, modified in such directions as the judgment of this sub-committee might dictate. The repairs to the Building consisted in tinning and painting the roof, strengthening the main floor, putting in

an entirely new roof-drainage system, removing the ornamentation on the exterior of the Building, securing in place such plaster accessories as seemed in danger of displacement, and re-plastering and patching the exterior, closing the unused entrances with iron railing, cleaning and repainting all of the structural iron work of the Building and putting iron guards at all of the windows. With the exception of the tinning and the plastering, the work was performed by contract, within an appropriation of \$15,000. The Building is as nearly perfect in condition now, as it appears possible to make it, and while the plaster work will be a continual source of annoyance and expense, yet it can be cared for with the force at the disposal of the Museum unless during the coming winter there is such displacement as to require additional labor. This can only be determined by the results as they transpire. It is estimated that unless something unforeseen arises, the Building can be maintained in its present physical condition for five years with the regular force of the Museum, and possibly the expenditure of \$3,000 per annum. Improvements in the steam heating plant have been extensive. An independent line of steam pipe has been constructed to the East Annex that will enable heat to be forced into the extreme East end of the Building, without the necessity of adding to the temperature of the system of the main Building, through which system steam has been heretofore conveyed to the East Annex. Water and steam pipes have also been laid to the new workshop; to the Division of Physical Anthropology; to Photography and other parts of the Building, as the establishment of new offices, laboratories and working rooms have demanded. The disadvantage of having the general workshop and taxidermy rooms of the Museum located in the warehouse at Fifty-Sixth street and Jefferson avenue, became so apparent, that by consent of the South Park Commissioners, an independent brick building accommodating workshops, laboratory and taxidermic rooms, has been constructed to the North of the East Main entrance of the Building. It is almost concealed from view, and at the same time gives ample room for work, and its proximity to the Museum itself simplifies and systematizes the work. A special vault was built for the skin vats of the taxidermists; the rooms all have sky-lights, and are fire-proof. The location of the carpenter shop and paint shop in this addition will enable workmen to take small jobs to the shop and prevent a great deal of annoyance, noise and litter created by carrying on such work in the Museum, while the Curators of Zoology or Ornithology are in quick communication with their taxidermists. During the past year a local telephone system has been established in the Building, giving prompt

and easy method of communication between the different divisions and offices of the Museum. It has been found of the greatest utility and economy. The Columbus caravels have been removed from the South Chicago Ship Yards to the Main Basin in Jackson Park, and secured to place and made ready for the rough weather of the winter. The Viking Ship was about to be removed to the Basin, but by order of the Executive Committee, the plan was changed and the ship was housed at the East of the Museum, as was the case the year before. Several improvements have been made in the printing office, in the photographic section, and in the poisoning division; new fixtures, furniture, appliances and accessories provided in each case, and the scope for work improved as the demands for its performance increased. The printing office now prints the mailing list, and all addresses on publications are attached by a mailing machine. The poisoning force is doing effective work in all departments of the Museum where such services are required, and has been attached during the past year to the Superintendent's jurisdiction. The presence of moths, wood worms and dermestids in all parts of the Museum has necessitated the greatest watchfulness and activity. The pests are now under control, although the work is continued everywhere unremittingly. A careful study of poisons, and advice, by correspondence, from other institutions, has added much valuable information as to the best methods to pursue and the most effective poisons to employ, so that this very important division of the Museum now feels fully equipped to meet these most dangerous enemies of all Museums.

The work of permanent installation in the Department of Anthropology has been advanced in many directions, and more artisan labor has been performed, and more facilities for permanent installation provided, for this Department than any other, unless it may be the department of Zoology. Re-adjustment and repairs to old cases and the addition of new ebony cases, many textile frames and numberless ebony bases, has vastly improved the appearance of the Department, while the re-arrangement of collections and the transfer of material to obtain more suitable geographic and other significant relationships has very much improved the appearance of the entire Department. The North Court and the East Court have been entirely reinstalled. The large and undesirable objects in these two courts have been either returned to the donors, donated to other institutions, or stored for future disposition, and the two courts are now devoted almost exclusively to Archeology, the East Court to America, and the North Court to Europe. Halls 10, 11, 15 and 16 have been much improved in appearance by segregation, modification and the applica-

tion of a uniform system. The Division of Physical Anthropology has been organized and placed in the working circuit during the past year, and the alterations and improvements incidental to the establishment of this Division have required considerable labor. The Assistant Curator in charge of this Division has been provided with offices in the first East Court gallery, and a store room has been constructed for him with sliding trays, etc., adjoining his office and laboratory. Less physical alteration and re-arrangement has been necessary in the Department of Botany than in any other. However, the receipt of new material by expedition, gift, exchange and purchase now requires for this Department accommodations that will be furnished. The necessary facilities are being provided that will work a great change in this gallery during the ensuing year. A part of this work will consist in completing eight monographic series, which will include the following interesting displays:

1. { Rubbers and gums of the world.
Seeds and their natural appliances for traveling.
2. { Textile fibres of the world.
Cotton: its growth and utilization from the seedling to food, clothing, warfare, medicine, surgery, implements, paper, photography and the arts.
3. { Notable foods of the world.
Edible fruits and their products.
4. { Habit plants and their products.
Opium, Tobacco, Cocaine, Betel Nut, Tea, Coffee, Mate, etc., etc., Vegetable poisons, Curare Woorare, Hellebore, Pyrethrum, etc.

Eight special herbarium cases have been provided and placed in the laboratory of this Department, in which is being gathered a reference herbarium about the nucleus formed by the Yucatan material obtained by expedition. The Department of Geology exhibits very little physical change during the year, although plans are being executed that will materially improve Halls 66 and 67. The paleontological collection has been largely re-arranged and re-mounted, and now follows more nearly the stratigraphical order of occurrence. From the lithological collection, most of the polished slabs have been transferred to the Economic Division, and their places filled by specimens illustrating the petrology of Manhattan Island and the Green Mountains of Massachusetts. The metallic meteorites have been coated with varnish, and several of the relief maps have been retouched. In the Economic Division, a number of the halls have been re-installed, but the old cases and bases have been utilized in

this work. Hall 78, salts, asbestos, etc., has been completely re-arranged and the collections placed in logical order, while a collection illustrating the manufacture of soda has been added from storage. Hall 77, clays, sands, cements, etc., has also been completely re-arranged, while some of the inappropriate material such as tiling, etc., has been transferred to the Department of Industrial Arts. Hall 76, the metallurgy of iron, has received attention, and when the collections of test specimens is completed, the collection of malleable castings now in storage added, etc., the Hall will be in excellent shape. A large geological section of the oil fields has been added to the wall of Hall 71, Petroleum. The Department of Industrial Arts has made noticeable progress and improvements through re-arrangement and new material installed, transfers from other departments, etc. Two cases for knitting machines have been installed in the alcove of Hall 30; coin cases have been added to the installation of the alcove of Hall 33, while Higinbotham Hall has been practically re-installed, much interesting and valuable material added, new wall and upright cases provided, etc. In Ceramic Hall, several new cases have been added, one striking collection of old Sevres porcelain being provided with a large case for the center of the room. Additions have been made to the Division of Agricultural Implements in the alcove of Hall 31. In the Division of Transportation, Boat Hall and Hall 40 (Pack Animals) have been thoroughly overhauled, the models repaired and improved, and new models provided, while the original locomotives in the extreme East Annex have been cleaned, and a suitable preparation applied to all of the metal work. The Egyptian boat, presented by Mrs. McCormick, has been installed in the extreme end of the East Court, and surrounded by an iron railing, mounted upon ways, etc. The Department of Zoology has been entirely re-modeled during the year, Hall 20 being provided with a new set of cases of mahogany and plate glass, and the Department extended into the West Court. In the center of this Court has been placed groups, and the sides occupied by molluscan collections. A new wall case has been provided in Hall 21 for the butterflies which have been re-mounted and to accommodate the Ryerson Himalayan collection now being worked over. All of the birch cases in this Department have been stained to conform in color with the new mahogany cases, and a vastly improved appearance is the result. The working rooms of the Department in the second South gallery have been re-furnished with storage shelves, poisoning boxes, chests, etc. The growing collection in the Department of Ornithology necessitated the provision of more space, which was accomplished in

the re-arrangement of the Zoological halls. The Museum now has two very handsome bird rooms and several groups and uniquely mounted set pieces. The birch cases have all been mahoganized, and new mahogany cases provided for a duck group, horn-bill group, ostrich group, etc. New oological cases have been purchased, and this material re-arranged and re-installed. Room 27 in this Department contains North American species only, while Room 26 will contain the remainder of the collection. The Department in a number of directions has been noticeably improved.

A NEW DEPARTMENT.—With the assent of the Curators whose departments would be drawn upon for some of the material, a new Department named, "The Department of Monographic Collections," has been organized for the purpose of bringing together for illustrating particular phases of culture, material that had appropriate place in two or more of the departments of the Museum, the general scheme being upon chronological or evolutionary lines. Two divisions have been established in this Department, Printing and Graphic Arts, and Musical Instruments. The purpose of the first division is to show the history, the evolution and the practical processes of the arts employed in printing and illustration. The subjects are treated from the modern point of view, that is to say, as technical processes of the useful and fine arts of today, dating back to the fourteenth century, previous to which time they are purely of archeologic interest. The section of Graphic Arts has a large field. The arrangement of the specimens is according to the classification of Koehler, that is, first the old processes, including wood engraving, steel and copper line engraving, etching and mezzo-tint, and the lithographic and substitute processes. The modern methods are to be shown by themselves, and include all of the applications of photography to the graphic arts. In the line of older processes, several interesting accessions have been made. A small fund has been expended in prints that illustrate in an excellent manner the results of the different older processes, both plain and in color. They are at the same time good specimens of fine art, worthy to be placed upon the walls of the Museum. In the line of the modern processes there has been added recently an excellent series of specimens illustrating the half tone process, and the Museum section of Photography is now preparing a collection that will illustrate the history and development of photography, which will be included under this group. In the division of Musical Instruments, the installation at this time is far from satisfactory, owing to the crowded condition of the un-related

material in that part of the Building where it is now installed, and considerable re-arrangement will be demanded before this division will attract any particular attention. However, there is a good deal of material already collected and subject to requisition, that when grouped and placed with relation to chronology, geography, development of culture as well as character of instrument, will make an excellent beginning. So far, the unique examples are largely from Asia and Africa, although South America furnishes some very good objects. Several old piano movements, a calderarpa, and a collection of the movements of the modern piano are in place, and invite a great deal of attention from the visitors. It is hoped to add to the divisions of this Department within the year a tentative installation in fire-making and horology.

TAXIDERMY.—The section of Taxidermy established during the year, while without a head, in the absence in Africa of its chief workman, was not instituted in advance of requirements, for without considering new work, the material that has been restored, preserved and saved, is remarkable. The greatest work has been done among the old mounted mammals that have been re-installed in Hall 20. The entire collection purchased before the opening of the Museum has been carefully restored, embellished, repaired, renovated, re-mounted, etc., and presents an entirely fresh appearance. Quite a number of the specimens in this collection require such treatment that they have been stored awaiting the return of the Chief Taxidermist. Great care has been bestowed upon the re-poisoning of the entire collection. Eighteen large mammals, mostly antelopes and deer, were mounted before the African expedition started, and two groups of monkeys were designed, mounted and installed in the West Court. The accessories for these groups, tree trunks, branches, leaves, fruits etc., were also prepared by the Museum taxidermists. Quite a number of fishes, reptiles and crustacea have been prepared and mounted, and two hundred and thirty birds, mostly North American, have been mounted and added to the Ornithological collections. The Curator of Ornithology has prepared sketches and details for a heron and a duck group on which work is now in progress.

PHOTOGRAPHY.—Notwithstanding the poor quarters and lighting of the only available place for photographic work, much has been accomplished. The importance and need of such a section in the Museum is fully exemplified in the demand which has been made upon it from all departments for the illustration of publications and

the preservation of data. The details of this work are related in the following table :

	Negatives.	Prints.	Lantern Slides
Anthropology,	138	48	108
Botany,	108	78	137
Geology,	122	246	113
Industrial Arts,	88	41	36
Zoology,	144	29	39
Library,	144	85	52
General,	43	7	28
	702	529	513

The operator has manipulated the stereopticon at the lectures where it has been used.

PRINTING.—The printing office has been in constant operation. In the way of improvements, there have been added to the equipment a paper cutter, a series of wood type, and many metal fonts. The following figures show the number of impressions made in the way of label printing and general jobs :

	Labels.	Other Impressions.
Anthropology,	1,577	15,850
Botany,	1,861	12,250
Geology,	1,196	475
History,	8	
Industrial Arts,	1,278	5,000
Zoology,	3,775	6,500
Library,	47	26,600
Director's Office,	3,082	9,977

FIRE PROTECTION AND POLICING.—Fire Marshal D. J. Swenie, of the City Fire Department, made a personal inspection of the Building with reference to fire protection in September. His report in writing, dated September 28th may be summarized to say : “I found everything in first-class shape as regards cleanliness and freedom from rubbish, or anything that would invite a fire. Your future safety depends on the continuance of your present policy, viz., doing everything possible in the way of prevention.” It being deemed advisable to add further means of protection to the equipment already in operation, the Museum has purchased hose, couplings and pipes for ten new stations, a number of ladders, fire axes and pike poles, and has constructed additional trap doors for admission to the basement. Chief Swenie made no suggestions with reference to the Museum Fire Department, its rules, methods, etc., from which it is inferred that these were satisfactory. The regular semi-monthly fire drill of the guards is maintained, and the hourly inspection of the

building, including the basement and main dome is continued. The annual report of the Captain of the Fire Department conveys every indication of an efficient service in this important direction. The guard service has been very satisfactory during the year. So satisfactory in fact, that no changes have been made either in members or methods. There has been no complaint filed against the guard from the many thousands of visitors. The discipline and orderliness of the building has been carefully maintained, and no thefts reported.

PERSONAL PROPERTY AND INTRINSICALLY VALUABLE MATERIAL.—A list of the office furniture, desk supplies, of all tools, appliances, and accessories so far purchased by the Museum, has been taken from the vouchers and records, as a basis for the personal property inventory, which it is proposed to make each six months or year as circumstances may dictate. These lists were checked by the head of each department or division on whose account the material was purchased. The items unaccounted for will be erased from the inventory and hereafter new purchases will be added as made, and it is believed this system of searching for property of this character, will cause all concerned to exercise more care in its custody. The intrinsically valuable exhibition material has also been checked from the records, with satisfactory results, although it is contemplated to re-check the material in Higinbotham Hall in February when the services of an expert in jewels will be available.

ADMISSIONS.—The admissions for the year have diminished about 98,000, and this decrease seems to have affected all of the classes of visitors. There are several minor reasons for this falling off, but the emphatic cause is that people who the first year visited the Museum under the impression that it was a miniature World's Fair, have discovered their error, and being uninterested in the real scope of the Museum, have passed their vacation hours in pursuits that promised greater amusement and excitement than was furnished by the Museum. This is especially illustrated by the fact that there have been no great crowds on any one day, as was often the occurrence the first year. Visitors to the Museum now come for edification, instruction and study. There is one point, however, to which special attention should be directed in this connection, and that is the sharp decrease in the attendance of school children and students. Of course no record is kept of those school children and students who attend on the free days, as no tickets are issued and there are no means of distinguishing one visitor from another. But it is fair

to assume that if the free admissions on pay days in any particular class vary one year from another, it is a strong indication that the interest of this class is abating. The Museum has made every effort to encourage principals and teachers of schools of all characters to induce their scholars and students to utilize the opportunities offered by the institution to broaden and emphasize their education in scientific and technical directions, and it must be admitted that the Museum has been impressed during the year with the indifference of teachers: more especially those of the public schools. Several schools have carried this indifference to the point of not even providing their scholars with the tickets that are furnished through the office of the Superintendent of Schools. It would seem that if the attention of the proper authorities was brought to this condition of affairs, remedial measures might be adopted. A great many classes, and notably classes from the parochial schools have visited the Museum accompanied by teachers to take up some particular line of study, and in some instances after collections have been inspected and notes taken, talks upon the collections have been made in the Lecture Hall, the Curators often performing this service. This seems the most desirable method of utilizing the material in the Museum for the education of the young, and it is encouraged in every way possible.

Herewith are submitted financial statements, analysis of attendance, list of accessions, names of members, etc., etc.

FREDERICK J. V. SKIFF,

DIRECTOR.

FINANCIAL STATEMENT.

RECEIPTS AND DISBURSEMENTS

During Year ending September 30, 1896.

RECEIPTS.

Cash in Treasurer's hands, Sept. 30, 1895,		\$16,294.52
Petty Cash on hand, Sept. 30, 1895,		739.95
Dues of Members—		
Life,	\$ 500.00	
Corporate,	370.00	
Annual,	6,110.00	6,980.00
South Park Commissioners,		15,000.00
Chicago City Railroad Co.,		2,250.00
P. D. Armour,	10,000.00	
R. T. Crane,	5,000.00	
Norman B. Ream,	5,000.00	
A. A. Sprague,	5,000.00	
Edson Keith,	5,000.00	
Wm. A. Fuller,	5,000.00	
Geo. E. Adams,	5,000.00	
C. L. Hutchinson, on account,	3,000.00	43,000.00
Martin A. Ryerson, special donation account Zoology, . .	665.00	
Martin A. Ryerson, special donation account Botany, . .	50.00	715.00
George Manierre, special donation account Geology, . .	45.00	
George Manierre, special donation account Anthropology, .	22.50	67.50
W. J. Chalmers, special donation account Geology, . . .	45.00	
W. J. Chalmers, special donation account Anthropology, .	22.50	67.50
Dividend, World's Columbian Exposition stock:—		
Arthur B. Farwell,	5.00	
F. T. Ainicker,	2.00	7.00
Sale of Sundry Articles,		145.64
Interest on Investments,		40,085.56
Interest on Bank Balances,		170.66
Admissions,		6,281.65
Check Rooms,		1,491.25
Sale of Guides,		470.75
Sale of Securities,		25,000.00
		<u>\$158,766.98</u>

DISBURSEMENTS.			
Salaries,			\$37,732.87
Guard Service,			12,224.01
Janitor Service,			5,704.44
Fire Protection:—			
Wages of Firemen,	\$ 2,760.00		
Uniforms and Supplies,	76.04	2,836.04	
Heat and Light Account:—			
Wages of Engineer and Assistants,	2,668.22		
Fuel,	3,843.76		
Supplies,	714.54	7,226.52	
Repairs and Alterations:—			
Wages of Carpenters, Painters, Roofers and Plasterers,	10,297.08		
Material used—Paints, Oils, Hardware, Glass, Lumber and Plaster,	2,685.04		
Contracts, Special Work,	8,769.35	21,751.47	
Furniture and Fixtures:—			
Cases and Bases,	9,820.20		
Building Fixtures,	762.86		
Safe in Deposit Vault,	611.00		
Sundries,	344.66	11,538.72	
The Library:—			
Books and Periodicals Purchased,	1,000.26		
Binding,	311.25		
Lecture Course,	47.28		
Expense Account,	103.10	1,461.89	
Sections of Printing and Photography:—			
Printing—Type, etc., purchased,	169.15		
Wages of Printers,	923.65		
Photography—Stock Purchased,	113.61		
Supplies Purchased,	172.00		
Wages of Photographer,	600.00	1,978.41	
Department of Anthropology:—			
Collections and Articles Purchased, . . .	15,500.77		
Installation Expenses,	796.44	16,297.21	
Department of Industrial Arts:—			
Collections and Articles Purchased, . . .	396.24		
Installation Expenses,	187.67	583.91	
B. & O. R. R., balance of contract,		7,547.35	
Department of Geology:—			
Collections and Articles Purchased, . . .	1,208.20		
Installation Expenses,	50.55	1,258.75	
Department of Zoology:—			
Collections and Articles Purchased, . . .	1,768.20		
Installation Expenses,	2,310.87	4,079.07	
Carried forward,			\$132,220.66

<i>Brought forward,</i>		\$132,220.66	
Department of Botany:—			
	Collections and Articles Purchased, . . .	\$400.00	
	Installation Expenses,	235.76	635.76
Department of Ornithology:—			
	Collections and Articles Purchased, . . .	28.30	
	Installation Expenses,	257.43	285.73
Department of Columbus Memorial:—			
	Expense Account,		92.00
General Expense Account:—			
	Freight, Expressage and Teaming,	3,621.17	
	Stationery,	1,388.56	
	Postage, Telegrams and Telephone, . . .	1,267.03	
	Publications,	2,565.52	
	Expeditions to Africa, The Gulf Coast, Mexico, etc.,	11,762.87	
	Guide, Fourth Edition,	565.53	
	Sundries,	2,585.70	23,756.38
			<hr/> \$156,990.53
In Treasurer's hands, Sept. 30, 1896,		1,036.50	
Petty Cash on hand, Sept. 30, 1896,		739.95	1,776.45
			<hr/> \$158,766.98

ATTENDANCE AND RECEIPTS FOR YEAR ENDING SEPT. 30, 1896.

ATTENDANCE.

Total Attendance,		230,337
Paid Attendance:—		
Adults,	24,624	
Children,	1,259	25,883
Free Admission on pay days:—		
School Children,	4,095	
Students,	827	
Teachers,	366	
Members—Corporate,	80	
Annual,	953	
Officer's Family,	124	
Special,	21	6,466
Admission on Free days:—		
Saturdays,		54,641
Sundays,		143,347
Highest Attendance on any day (Aug. 23, 1896)	5,370	
Lowest Attendance " " (Feb. 3, 1896)	6	
Highest paid Attendance " (July 8, 1896)	917	
Average Daily Admissions, (366 days)	629	
Average Paid Admissions, (262 days)	99	

RECEIPTS.

Guides sold—1893 @ 25 cents,	\$ 470.75
Articles checked—29,825 @ 5 cents,	1,491.25
Admissions,	6,281.65
Total,	\$8,243.65

ACCESSIONS.

FROM OCTOBER 1, 1895, TO OCTOBER 1, 1896.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

ALDIS, OWEN F., Chicago.

144 specimens of pottery, copper implements, obsidian implements, beads, etc.—Valley of Mexico and Oaxaca.

ARMOUR, ALLISON V., Chicago.

2 earthenware water bottles—Valley of Mexico.

Indian potter's outfit, (32 specimens); copies of ancient mural paintings and drawings, (89 sheets)—Mexico.

80 stone implements, 22 earthen vases, 24 negatives of Yucatan ruins, 12 bushels fragmentary pottery, etc.—Mexico.

65 archeological specimens: sun stone, diorite head of Tlaloc, obsidian core, head of idol, pestles, celts, fiber beaters, stone blades, bronze bells, arrowpoints, earthen dishes, silver beads, etc.—Valley of Mexico.

AYER, EDWARD E., Chicago.

Silver ornaments, articles of leather, baskets, fetiches, etc., (32 specimens)—Navajo Indians.

Medicine man's rattle—Indians of California.

Copper bracelet—Indians of N. W. Coast.

Piece of painted buffalo skin—Plains Indians.

Wristlet—New Guinea.

Bronze figure of Isis—Egypt.

32 specimens colored Roman glass, (fragments)—Rome.

1 unbaked brick—Egypt.

1 small carnelian figure, pendant—Egypt.

1 figure in green-glaze ware—Egypt.

2 statuettes of stone—Egypt.

AYER, E. E., PORTER, H. H., BURNHAM, D. H., and SINGER, CHAS.

2 bronze bath tubs, 6 bronze vases, 1 bronze table, 1 bronze lamp—Ancient Rome, Pompeii, (Loan).

AYER, MRS. EDWARD E., Chicago.

160 pieces blue-glaze earthenware; ornaments, ushabti figures, vases, etc.—Egypt.

44 pieces blue-glaze earthenware; ornaments, etc.—Egypt.

BLAIR, W. F., Chicago.

21 bronze figures of ancient gods, etc.—Egypt.

BURNHAM, D. H., Chicago. See Ayer.

CHALMERS, W. J., Chicago.

Quiver, necklace and stone implement, used by Indians of British Guiana.

CHERRIE, G. K., Field Columbian Museum.

2 Indian baskets—Louisiana.

FIELD COLUMBIAN MUSEUM.

Collected by W. H. Holmes:

30 specimens of ancient mining implements—Rockland, Michigan.

Purchases:

47 reproductions of ancient Roman bronzes, (purchased from S. de Angelis and Sons, Naples, Italy).

- 2 creeses or daggers—Malay, (purchased from J. C. Tanty, Chicago).
 1 buffalo robe, decorated with quill work, (purchased from John Butter, Chicago).
 Ancient Roman swords, knives and spear-heads of iron, 11 pieces—Italy; Phœnician glass, bronzes, stone vases, mummies of animals, etc., 256 pieces—Egypt and Syria; 27 small earthenware vessels—Egypt, (purchased by E. E. Ayer, Chicago).
 4 human skulls, (purchased from Truax & Green, Chicago).
 1 grooved stone axe, (purchased from Adolph Miller, Bowmanville, Ill).
 207 flaked flints—vicinity of St. Louis, Mo.; 28 large flaked stone implements—Ill. and Mo., (purchased from W. J. Seever, St. Louis, Mo).
 Collection of Eskimo material, 1172 specimens—Alaska, (purchased from Mimer W. Bruce).
 Indian skull with arrow point imbedded behind nasal cavity, (purchased from J. V. Tallman, Pendleton, Oregon).
 Skull of Apache Indian woman, (purchased from F. M. Noe, Indianapolis, Ind).
- HUTCHINSON, C. L., Chicago.
 20 specimens earthenware vases, spoons, tablet and platter.
- KEELEY, DR. LESLIE E., Dwight, Ill.
 1 bronze sistrum—Egypt.
- KROWS, MELVIN, Momence, Ill.
 1 conch-shell hammer or casse-tete—Florida.
- LAEGELER, JULIUS, Highwood, Ill.
 Indian pack saddle and skin carrying bag—Sioux Indians.
- McCORMICK, CYRUS H., Chicago.
 1 ancient iron plow-point—Italy.
- MOORE, CLARENCE B., Philadelphia, Pa.
 32 stone celts, 1 shell celt, 1 shell casse-tete, etc.—Florida, (exchange).
- MUSEUM OF FINE ARTS, St. Louis, Mo.
 60 pieces of ancient Roman glass.
 2 bronze rings, (for examination).
- NEW BRUNSWICK NATURAL HISTORY SOCIETY, St. Johns, N. B.
 6 specimens of partially shaped spear points and flakes of flints, and 4 fragments of pottery—Queens County, N. B.
- PILLARS, JAMES, Lima, Ohio.
 27 photographs of stone implements—Ohio, (exchange).
- PORTER, H. H., Chicago. See Ayer.
- RYERSON, MARTIN A., Chicago.
 1 terra cotta Etruscan urn—Italy.
 4 ancient Roman terra cotta roofing tiles—Italy.
 500 prehistoric stone implements—Italy.
 20 small pieces of bronze, said to have been used as money.
 3 marble images of Buddha—India.
 13 copper and brass vases—India.
- SINGER, CHAS., Chicago. See Ayer.
- TALLMAN, J. V., Pendleton, Oregon.
 431 arrow and spear points—Oregon, (for examination).
- THOMPSON, E. H., Merida, Yucatan.
 Report on the ruined city of Xkichmook, Yucatan—Manuscript and drawings.

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- CLARK, E. B., Chicago.
 2 specimens of fungi, (for examination).
- FIELD COLUMBIAN MUSEUM.

Collected by Dr. C. F. Millspaugh, for Department of Botany:
 6 herbarium specimens—Mississippi.

- 3 herbarium specimens—Mt. Carmel, Ill.
- 76 specimens of fungi, 9 species—Blue Island, Ill.
- Trunk of tree, *Aralia spinosa*—New York.
- 1 photo-negative of *Aralia spinosa*—Waverly, N. Y.
- 31 specimens of fungi, cotton, and field species for Herbarium—Mississippi.
- 150 herbarium specimens (35 species) for Forestry Collection—Mississippi.
- 12 specimens of fruit—Mississippi.
- 36 blocks of wood—Mississippi.
- 2 bromide enlargements of negative—Mississippi.
- Purchases:
 - 3,500 botanical specimens, 560 species, and 1,150 herbarium plants, 200 species—Yucatan, (purchased from Geo. F. Gaumer, Izamal, Yucatan).
- GRAY HERBARIUM. Cambridge, Mass.
 - 2 dried plants, *Phyllanthus* and *Argythamnia*, (for examination).
- LANSING, O. E., Chicago.
 - 3 specimens of fungi.
- LEE, J. ELLWOOD, CO., Conshohocken, Pa.
 - 7 samples illustrating process of manufacture of absorbent cotton.
 - 1 lb. "Hospital Grade" absorbent cotton, and 1 gallon liquor residue after first process in the manufacture of absorbent cotton.
- MILLSPAUGH, C. F., Chicago.
 - 3 herbarium specimens—North America, (exchange).
 - 54 herbarium specimens—West Virginia, (exchange).
 - 17 herbarium specimens—Brazil, (exchange).
- NAUMANN, J., San Diego, Cal.
 - Cane of Manzanita wood—natural curiosity, head in form of a woman, (for examination).
- NEVIN, W. G., Chicago.
 - 1 piece of oak wood, (for examination).
- NUTTALL, L. W., Nuttallburg, W. Virginia.
 - 45 fungi—West Virginia.
- PALMER, DR. EDWARD, Washington, D. C.
 - 6 photographs of trees—Acapulco, Mexico.
- PARKE, DAVIS & CO., Detroit, Mich.
 - 4 plants, Euphorbiaceae, (for examination).
- PETFORD, C. E., Chicago.
 - 32 plant products—Turkestan, (exchange).
 - 14 specimens of fruits, gums, wood and rubber.
 - 1 specimen of lace bark—Brazil.
 - 11 specimens fruits, fibers and flowers—Johore, Java and Trinidad.
- PHILADELPHIA COMMERCIAL MUSEUM, Philadelphia, Pa.
 - 28 forestry products—Japan, (exchange).
 - 146 forestry products—Siam, (exchange).
- RYERSON, MARTIN A., Chicago.
 - 150 herbarium specimens—Mexico.
- SCHNECK, DR. JOSEPH, Mt. Carmel, Ill.
 - 2 herbarium specimens—Mt. Carmel, Ill.
 - 6 specimens of *Gladichia monosperma*, leafing branch in spine and fruit Mount Carmel, Ill.
- STREIT & SCHMITT, Cincinnati, O.
 - Mounted photograph of curiously marked board of *Liriodendron tulipifera*.
- THOMPSON, E. H., Merida, Yucatan.
 - Pod and seeds of Xtabay—Chichen-Itza, Yucatan.
- TOWNE, MRS. M. M., Lake Geneva, Wis.
 - 9 specimens of fungi, 3 species—Harvard, Ill., (for examination).

- TRACY, PROF. S. M., Agricultural College, Miss.
4 cotton plants in "square" and "bloom"—Mississippi.
- UNDERWOOD, L. M., Auburn, Ala.
2 negatives of new species of Yucatan plant.
- VALDEZ, PORFIRIO, Merida, Yucatan.
300 medicinal plants (100 species)—Yucatan.
- WHITMORE, O. S., Chicago.
2 specimens of supposed poisonous plants, (for examination).

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AGUILAR, PONCIANO, Guanajuato, Mexico.
23 specimens of Mexican minerals, Albite, Calcite, Valencianite, etc.—Guanajuato, Mexico, (exchange).
- AIZA, MANUEL, Durango, Mexico.
1 specimen of Calcite, stalactitic, and 1 of Sulphur, stalagmitic—Desert of Mapimi, Mexico.
- ALMY, JOHN D., Villa Corona, Mexico.
7 specimens of silver ores and minerals—Villa Corona and Durango, Mexico.
- AYER, E. E., Chicago.
1 specimen of Calc Tufa—Tivoli, Italy.
- BERRY, ROBERT J., Durango, Mexico.
7 specimens of mercury and tin ore—Durango, Mexico.
- BRENNAN, G. A., Chicago.
Clay-ironstone concretion—supposed meteorite—(for examination).
- BROWN, C. W., Los Angeles, Cal.
2 Corals, 3 Brachiopods, etc.—Appleton, Wis.
- BURNHAM, D. D., Battle Creek, Mich.
6 charts showing the beginnings of life on earth, (for examination).
- BUTLER, E. C., U. S. Legation, Mexico, D. F.
4 specimens of mercury ore—State of Guerrero, Mexico.
- CANN, JOS. BOARDMAN, Wyoming.
1 specimen of supposed platinum ore.
- CARRERA, PROF. J. C., Las Cruces, N. M.
1 specimen of Melanconite—Organ Mountains, N. M., (for examination.)
- CENTRAL SCHOOL SUPPLY HOUSE, Chicago.
1 relief map each of northeastern Illinois, United States, North America, South America, Europe, Asia, Africa, the World.
1 relief map of France, (loan).
- CHALMERS, W. J., Chicago.
1 specimen of pseudomorph of Pyrite—Virginia.
1 specimen of Crocidolite—Cape Town.
1 specimen of *Calymene Blumenbachii* var. *Niagarensis*—Chicago Drainage Canal.
- CHOATE, J. C., Woodstock, Ill.
1 specimen of hornstone in quartzite, (for examination).
10 specimens of Trenton fossils, (for examination).
- CLAYTON, G. P., Pullman, Ill.
1 specimen of sand concretion—Green County, Wis.
- COCKERELL, L. M., Guanajuato, Mexico.
1 specimen of Quartz-crystal showing movable bubble—Guanajuato, Mexico.
- COLORADO SCHOOL OF MINES, Golden, Colo.
74 specimens of fossil leaves and 10 specimens of minerals—Table Mountain and Golden, Colo., (exchange).

- DAY, DAVID T., Chief Mining Dept., Atlanta Exposition.
12 specimens of nickel and gold ores—Canada and South Carolina.
1 specimen of Magnesite—California.
- DERR, H. B., Chicago.
1 specimen of *Athyra substellata*—Illinois Coal Measures.
- DIXON, CHAS., Elkhart, Ind.
Tooth of *Elephas primigenius*, (for examination).
- DOTY, DUANE, Pullman, Ill.
1 specimen of crystallized Gypsum in clay, 1 Gypsum crystal—Pullman Ill.
- DUCKWORTH, A. S., Chicago.
100 specimens of Cretaceous fossils, representing 37 distinct species—Texas, (exchange).
- EBERSBACHER, ALF., Youngstown, Ohio.
8 nuts from the Coal Measures of Mahoning County, Ohio.
- EHRENFELD, FREDERICK, Philadelphia, Pa.
1 specimen of Philadelphite—Philadelphia, Pa.
- ESCUELA N. DE INGENIEROS, Mexico, D. F.
15 specimens of minerals, including Apophyllite, Calcite, Guadalcazarite, Livingstonite, Bustamite, Xalostocite, etc.—Mexico, (exchange).
- FERRIS, DR. U. B., Chicago.
1 slab showing glacial striæ—Chicago.
- FIELD COLUMBIAN MUSEUM.
Collected by O. C. Farrington:
21 specimens of silver ores, El Naval and Valenciana mines, building stones, specimens of Amethyst, Dolomite, Calcite, Quartz, etc.—Guanajuato, Mexico.
15 specimens of Wulfenite, Aragonite, lead ore, Anglesite, etc.—Organ Mountains, N. M.
24 specimens of silver ore, gangue and country rock, tufa, etc.—Pachuca, Real del Monte, Durango and Zacatecas, Mexico.
25 specimens of Martite and rocks of Cerro Mercado—Durango, Mexico.
31 specimens of lava, pumice, sulphur, glacial boulders, etc.—Popocatepetl, Ixtaccihuatl, and Valley of Mexico, Mexico.
- Purchases:
259 specimens of fossils, (69 species)—Galveston Deep Well, Texas, (purchased from J. A. Singley, Giddings, Texas).
300 specimens of Chicago fossils, 100 of Carboniferous fossils, 5 specimens of Quartz, 20 of miscellaneous minerals, and 45 of shells and corals, (purchased from Mrs. M. A. Kennicott, Chicago).
15 specimens of Cretaceous Ammonites and Lamellibranchs—Livingston, Mont., (purchased from O. D. Booth, Forsyth, Mont.)
25 crystals, (purchased from George L. English & Co., New York).
3 specimens of Calcite—Joplin, Mo., (purchased from P. P. Peck, Joplin, Mo.).
- FORDING, D., Alliance, Ohio.
Supposed meteoric stone, (for examination).
- FURNESS, DWIGHT, Guanajuato, Mexico.
1 specimen of Stephanite, 1 of Native Silver and 1 of chloride silver ore—Mexico.
- GILL, GEO. C., Olympian Springs, Ky.
2 fossil Crinoids—Salt Lake Creek, Bath County, Ky.
- GILL, MRS. GEO. C., Olympian Springs, Ky.
1 specimen of limonite concretion.
- GORDON, C. H., Beloit, Wis.
1 specimen of Syenite-gneiss, (Leopard Rock)—High Rock Mine, Ottawa, Canada.
- HAND, N. S., Silver City, N. M.
1 piece of Onyx, banded—Mexico.
1 specimen of Cobaltite—Silver City, N. M.

- HATRY, OTTO, Kansas City, Mo.
 1 slab of Carboniferous fossils, 1 specimen of *Cyathophyllum*, (exchange).
 1 specimen of *Baculites ovata*, (exchange).
- HELMER, M. F., Mechanicsville, Iowa.
 1 specimen of Chalcedony, (for examination).
- HOLMES, W. H., Field Columbian Museum.
 1 specimen of Albertite—Utah.
 Piece of Albertite, (for examination).
- HUNTINGTON, J. D., Chicago.
 5 specimens of Obsidian and Calcite—Regla Falls and Pachuca, Mexico.
- JACKSON, CHAS. P., San Francisco, Cal.
 Shingle and nail from cabin of J. M. Marshall, the discoverer of gold in California, and a piece of granite from his monument at Colona, Cal.
- KANE, W. G., Kansas City, Mo.
 4 specimens Muscovite in Biotite—Custer, So. Dakota, (exchange).
- KELLER, MRS. C. F., Little River, Kansas.
 7 specimens pyrite, gypsum, limestone, marl, etc.—Little River, Kansas, (for examination).
- KELLER, MRS. I. R., Chicago.
 1 specimen of sand from Mount Olivet, Jerusalem.
- KÖNIGLICHE BERGSWERKSDIRECTION, Saarbrücken, Germany.
 1 geological map—Saarbrücken Coal Fields, Germany.
- LANDERO, CARLOS, representing Compañía Minera de Pachuca y Real del Monte, Pachuca, Hidalgo, Mexico.
 25 specimens of silver ores and minerals—Real del Monte and Pachuca, Mexico.
- LAWRENCE, W. J., Chicago.
 3 specimens of Pyrite, 1 of Chrysocolla—Colorado and Utah.
 2 fossils—Chicago, Ill.
 1 specimen of cut Rubellite—California.
 1 specimen of stalactitic Calcite—Southern Illinois.
 1 specimen of Malachite and Azurite—Bisbee, Ariz. (exchange).
- LEFFMANN, CARLOS, Guanajuato, Mexico.
 2 specimens of Albite, and one of Manganite after Calcite—Guanajuato, Mexico.
- McCAULEY, CHARLES, Chicago.
 Fragment of alum, supposed to have fallen from the sky—Chicago, (for examination).
- MEEK, M. W., Chicago.
 18 mineral specimens, (for examination).
 5 specimens of Trenton fossils, (for examination).
- MILLARD, W. K., Chicago.
 1 *Cyathophyllum*, Grass Lake, Ill., (for examination).
- MILLER, E. C., Chicago.
 1 specimen of *Calymene Blumenbachii*, var. *Niagarensis*—Drainage Canal, Cook County, Ill.
- MILLSPAUGH, MRS. M. L., Chicago.
 4 specimens of fossil coral—Petoskey, Mich.
- MINNESOTA IRON CO., Soudan, Minn.
 1 large oil painting of a section of a mine—Soudan, Minn.
- MOSS, PROF. MILTON, Chicago.
 2 specimens of Chenivixite, and 2 of Conichalcite—Eagle Mine, Utah.
- MUSEO NACIONAL DE MEXICO, Mexico, D. F.
 8 specimens of minerals, including Cassiterite, Topaz, Stilbite and Calcite—Mexico, (exchange.)
- NAGELOONT, T. B., Chicago.
 Sand from under kame—Northville, Mich.
- NATIONAL MALLEABLE CASTINGS CO., Chicago.
 6 specimens illustrating the manufacture of malleable castings.

- NEW BRUNSWICK SOCIETY OF NATURAL HISTORY, St. Johns, N. B.
24 specimens of Devonian fossil plants in slate—Fern Ledges, St. Johns, N. B., (exchange).
- NICHOLS, H. W., Field Columbian Museum.
Specimen of free gold in quartz—Nova Scotia, (loan).
- NORIEGA, PEDRO DE LA, Ameca, Mexico.
3 specimens of Sulphur—Popocatepetl, Mexico.
- OROZCO, PABLO, Guanajuato, Mexico.
8 specimens of Calcite, Quartz, Silver, Argentite, etc.—Guanajuato, Mexico, (exchange).
- PECK, P. P., Joplin, Mo.
Large cluster of crystallized Calcite, 2 specimens of single crystals of Calcite, 2 specimens of crystallized Galena—Joplin, Mo., (exchange).
- PENFIELD, PROF. S. L., New Haven, Conn.
8 specimens of rare minerals.
- REED, LIEUT. HUGH T., Chicago.
2 pieces of glacial boulder—Chicago, (for examination).
- RODRIGUEZ, FIDENCIO, City of Mexico.
1 specimen of Hornblende Andesite—Tlapacays, Mexico.
1 specimen of Olivine-Basalt—Ixtapalapa, Mexico.
1 specimen of Polybasite—Zacatecas, Mexico.
1 specimen of Sulphur—Popocatepetl, Mexico.
- RUST, HORATIO N., South Pasadena, Cal.
Specimen of supposed meteoric iron.
- SAFFORD, J. M., Nashville, Tenn.
3 casts of teeth of *Petalodus Ohioensis*.
- SHEAHAN, THOMAS, Batavia, Ill.
26 specimens of *Calymene Blumenbachii*, var. *Niagarensis*, with specimens of pyrite and chert—Chicago Drainage Canal.
- SNYDER, WM. ALBERT, Chicago.
15 specimens of septaria and fossiliferous pebbles.—Glen Pier, Mich.
- SPAULDING, GEO. H., Marion, Ind.
3 specimens of chert and pyrite concretions, (for examination).
- SVEGE, A. E. J., Field Columbian Museum.
1 specimen of *Baculites*—Medicine Hat, Assiniboia.
- THOMPSON, E. H., Merida, Yucatan.
Specimen of limestone—Yucatan, (for examination).
- ULLERICK, DR. C. A., Chicago.
1 specimen of siliceous oolite.
Fragment of a *Ganoid*—Colorado, (for examination).
- U. S. NATIONAL MUSEUM, Washington, D. C.
1 crystal of Triplite—Stoneham, Me., (for examination).
- WATTLES, JUNIUS H., Kansas City, Mo.
1 specimen of geode containing Siderite and Dolomite—Kansas City, Mo.
- WELLER, S., University of Chicago.
5 casts of type specimens of *Petalocrinus mirabilis*—Iowa.
- WERTHY, WM., Sailor Springs, Ill.
2 specimens Hornblende Granite and Galena, (for examination).
- WILLIAMS, T. B., Chicago.
1 basket Tallow clay and associated chert and limestone—Reynolds Co., Mo., (for examination).

DEPARTMENT OF HISTORY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- CURTIS, WM. E., Washington, D. C.
2 photographs of Columbus Monument, Mayaguez, Puerto Rico.
- DALE, JOHN T., Chicago.
Gun originally owned by Ethan Allen, Revolutionary General.

DAY, J. L., Chicago.

Copy of "The Old Flag," a paper printed with pen and ink.

EVANS, W. S., South Chicago.

16 specimens of U. S. fractional currency, stamps, Exposition pass, etc., contained in one frame.

FRENCH, D. C., New York.

Wreath and acorn for "Republic Statue."

KUNZ, GEO. F., New York.

1 bronze medal, (loan).

MOSS, PROF. MILTON, Chicago,

Map of Edinburgh in 1647, (copy).

SIMPSON, HALL, MILLER, & CO., Chicago.

Exposition souvenirs—3 silver plaques.

1 silver napkin ring.

SKIFF, F. J. V., Field Columbian Museum.

Copy of Harper's Weekly, April 29, 1865, containing account of Lincoln's assassination.

STEVENSON, DUDLEY.

6 admission tickets World's Columbian Exposition.

WARREN, PAUL, Chicago.

Chromolithograph of the Art Building.

WILSON, MARSHALL J., Chicago.

Confederate money: 5c, 15c, 25c and \$1.00.

WORLD'S COLUMBIAN EXPOSITION.

4 invitations and programmes to Exposition functions.

DEPARTMENT OF INDUSTRIAL ARTS.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AYER, EDWARD E., Chicago.

1 piece, cross-section, of first iron rail laid in Chicago.

BALLIN, MEYER, Chicago.

Crayon portrait of Hans Christian Andersen.

BHUMGARA & CO., F. P., London.

1 vase of green, blue and white with elephant's head as mouth.

BURY & CO., EDWARD, Liverpool, England.

2 blue prints showing engines constructed to Dec. 1834, and measurement of engine "Liverpool."

DODGE, LEMUEL P., Oak Park, Ill.

1 intaglio enclosed in gold locket, (for examination).

FIELD COLUMBIAN MUSEUM.

Purchases:

500 mounted specimens of velvet, brocades, etc.—Italy; gold beads, gold earrings and gold bracelet, 8 pieces; crystal figure of owl with head of gold, and 1 specimen of Sicilian silk, (purchased by E. Ayer).

28 pieces of crystallized gold—Breckinridge, Colo., (purchased from J. R. Putnam & Co., Chicago).

63 coins—42 B. C. to 1840 A. D., 1 silver snuff box, and 1 piece of carved ivory, (purchased from Thos. Gillett, Chicago).

65 pieces of old china, and 4 Wedgewood cameos, (purchased by E. A. Barber, Philadelphia, Pa.).

1 harp piano, (purchased from E. D. Lindsay, Chicago).

1 antique Dutch copper and brass snuff box, (purchased from W. H. Peck, Chicago).

Complete series (17 specimens) of materials used in tanning fancy leathers, (purchased from Tiffany & Co., New York).

GETTY, H., Chicago.

81 pieces of Roman plaid textiles.

- GLENNY SONS & CO., W. H., Buffalo, N. Y.
2 jugs of Doulton ware, (Columbia jugs).
- HAWKINS, ARMAND, New Orleans, La.
1 old French faience plate known as the "Rouget de Lisle plate."
1 plate made by Mason in 1818, known as the "Billy Bowleg plate."
- JESURUM & CO., M., Venice, Italy.
104 specimens of mounted velvets and brocades, and laces—Venice, Italy.
- KEELEY, MRS. LESLIE E., Dwight, Ill.
13 Rhoda and 4 Damascus plates.
- KING, WM. G., Chicago.
Railroad time-table.
- KIRCHEISEN, F., Chemnitz, Germany.
Fabric glove machine—Chemnitz, Germany.
- KOERNER BROTHERS, Chemnitz, Germany.
Old hosiery loom—Chemnitz, Germany.
- LINTON, ALFRED, Chicago.
1 bronze medal, (for examination).
- MCCORMICK, C. H., Chicago.
3 Arabian plows, etc.—Egypt.
1 plow—Southern Palestine.
1 plow—Galilee.
1 yoke—Palestine.
1 seed-sower.
- MCCORMICK, MRS. C. H., Chicago.
1 ancient cedar boat—Egypt.
- MORRIS, MISS JESSIE, Chicago.
1 antique cotton bed spread—India, (loan).
- REESE, HENRY, Baltimore, Md.
1 battery claimed to have been originally used by Morse on line between
Washington and Baltimore, (for examination).
- SCHIMMELPFENG, MRS. MARIE, Chicago.
8 shell cameos, (for examination).
32 cups, saucers, vases, etc., of Sévres and Dresden porcelain, (loan).
- SCHLESINGER, B. F., Chicago.
1 silk loom and accessories—Japan.
- SHEARER, MRS. W. W., Chicago.
3 pieces of old china.
- SIMMS, S. C., Field Columbian Museum.
1 porcelain vase, white overlaid glaze, colored decoration—School of
Technology, Tokyo, Japan, (loan).
- SMITH, WILLARD, Chicago.
Collection of railroad tickets and passes from railways of Victoria,
Australia.
- VISCONTI, F., Chicago.
3 antique bronze coins, (for examination).

DEPARTMENT OF MONOGRAPHIC COLLECTIONS.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)*

DIVISION OF PRINTING AND GRAPHIC ARTS.

- BARNHART BROS. & SPINDLER, Chicago.
Old Ramage Press, (transferred from Library).
- BINNER ENGRAVING CO., Chicago.
8 specimens illustrating progressively the Half-tone process. *

*Collections marked as transferred from another department have been previously acknowledged. They are mentioned again in order to give a complete list of collections in this newly-created department.

- CARTER, E. P., Chicago.
1 copy of "The Trenton Weekly Mercury," 1788, and 1 copy of "Poor Will's Almanack," 1723, transferred from Department of History.
- CHICAGO PHOTOGRAVURE CO., Chicago.
Collection illustrating Collotype process, (transferred from Library).
- DEVOLL, MRS. GEO. B., Sandwich, Ill.
Copy of first newspaper published in America, (transferred from Library).
- DICK & CO., A. B., Chicago.
Collection illustrating mimeograph work.
- FIELD COLUMBIAN MUSEUM.
Purchases:
14 pictures of early printers, presses, etc., (purchased from J. O. Wright, New York.)
20 color prints, portraits, painter etchings, mezzotints, etc., (purchased from R. M. Lindsay, Philadelphia, Pa.)
4 electrotypes and zinc etchings, (transferred from Library).
2 old books printed in 1641 and 1679; and old Bible, (purchased from H. B. McGregor, Pontiac, Ill.)
- GERMAN GOVERNMENT PRINTING OFFICE, Berlin, Germany.
Frames of specimens showing style of printing, etc., (transferred from Library).
- GOWARD, G., Chicago.
19 Japanese prints.
- GUSTAVUS ADOLPHUS COUNCIL, No. 215, Chicago.
Old Swedish Bible.
- HAMILTON MFG. CO., Two Rivers, Wis.
Wood type, (transferred from Library).
- HOE & CO., R., New York.
21 pictures of printing presses and samples of color work, (transferred from Library).
- JAPAN ART INSTITUTE, Tokyo, Japan.
Kokka—an art magazine in Japanese, (transferred from Library).
- LEE, G. A., Chicago.
Danish Bible of the year 1550, (loan).
- LEVY, MAX, Philadelphia, Pa.
Glass screen ruled 133 lines to the inch, for half-tone process.
- MERGENTHALER LINOTYPE CO., New York.
Photograph of Linotype press, matrices, slugs of type, (transferred from Library).
- MILLSPAUGH, C. F., Field Columbian Museum.
Etching tools, copper plate and print.
- PETTIBONE & CO., P. F., Chicago.
Collection illustrating lithograph printing.
- SHILLING, J. L., Chicago.
7 proofs of photo-chrome printing.
- TUCK & SONS, RAPHAEL.
2 albums containing samples of chromo-lithograph cards, (transferred from Library).
- U. S. DEPARTMENT OF STATE, Washington, D. C.
Picture showing monks working at printing press, (transferred from Department of History).
- U. S. NATIONAL MUSEUM, Washington, D. C.
Photograph of Benjamin Franklin Printing Press; 17 pictures of old printing presses.
- WESTERN BANK NOTE CO., Chicago.
Collection illustrating steel engraving.
- WILE, JACOB, LaPorte, Ind.
Scrolls of parchment and accessories, (transferred from Library).

DIVISION OF MUSICAL INSTRUMENTS.

COALE, H. K., Chicago.

Old piano, (transferred from Department of Anthropology).

JAVA CHICAGO EXPOSITION SYNDICATE.

Musical instruments, (transferred from Department of Anthropology).

LINDSAY, E. D., Chicago.

Calderarpa or harp piano, (transferred from Department of Industrial Arts).

LYON & HEALY, Chicago.

11 musical instruments, (transferred from Department of Anthropology).

MEYER & SON, C., Philadelphia, Pa.

Iron plate piano, (transferred from Department of Anthropology).

WESSELL, NICKEL & GROSS, New York.

Piano movements, (transferred from Department of Anthropology).

WORLD'S COLUMBIAN EXPOSITION, Department of Ethnology.

27 musical instruments, (transferred from Department of Anthropology).

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AKELEY, C. E., Field Columbian Museum.

1 mounted *Ardetta neoxena* Cory.

AMERICAN MUSEUM OF NATURAL HISTORY, New York.

9 bird skins—Brazil, Mexico, Yucatan, Guiana, (for examination).

BRANDLER, CHAS., Field Columbian Museum.

2 birds: *Syrnium nebulosum* and *Asio wilsonianus*.1 mounted bird: *Accipiter cooperi*—Milwaukee, Wis.

CHRISTENSEN, L. A., Baldwin, Wis.

1 bird's nest made of twine.

CORY, C. B., Boston, Mass.

23 bird skins and 1 nest—Florida.

FIELD COLUMBIAN MUSEUM.

Collected by Geo. K. Cherrie:

2 mounted birds: *Symphemia semipalmata* and *Calidris arenaria*—Indiana.

38 bird skins—Du Page Co., Ill.

121 bird skins, 37 species—Mississippi.

229 bird skins—Louisiana.

609 bird skins, 96 species—Texas.

Nest and 4 eggs of *Tyrannus tyrannus*—Wolf Lake, Ill.

20 bird skins, 12 species—Wolf Lake and South Chicago, Ill.

32 mounted birds, 20 species—Jackson Park, Hegewisch and Worth, Ill.

14 bird skins, 8 species—Wolf Lake, Ill.

15 bird skins—Worth and Glen Ellyn, Ill.

36 mounted birds—Illinois.

22 bird skins, 15 species—Indiana and Illinois.

Collected by I. N. Travis:

7 birds: *Laurus argentatus smithsonianus*—Chicago.Nest and 4 eggs of *Pooecetes gramineus*—Whiting, Ind.

25 mounted birds, 18 species—Whiting, Ind.

7 mounted birds—Indiana.

1 mounted bird: *Strix pratincola*—Chicago.

Purchases:

8 birds—Illinois, Indiana and Iowa, (purchased from Lepmann & Heggie, Chicago).

1 mounted lynx for bird group, (purchased from W. W. Hart & Co., New York).

- 6 bird skins—California, (purchased from W. W. Price, Palo Alto, California).
 9 birds—Illinois, (purchased from G. W. Linn & Son, Chicago).
 1 bird: *Chen hyperborea*—Illinois, (purchased from Barnett Bros., Chicago).
 12 mounted birds, (purchased from I. N. Travis, Field Columbian Museum).
 6 birds—Illinois, (purchased from J. N. Adams, Chicago).
 2 birds: *Bubo virginianus*, *Anas americana*—Wisconsin, (purchased from Chas. Brandler, Field Columbian Museum).
 2 birds: *Anas boschas*, *Anas obscura*—Illinois, (purchased from M. Mayer, Chicago).
 MANIERRE, A., Chicago.
 1 old-squaw duck, *Clangula hyemalis*.
 MOULTON, MRS. G. M., Chicago.
 1 peacock.
 RYERSON, M. A., Chicago.
 1 mounted, albinistic, American coot, *Fulica americana*.
 SMITHSONIAN INSTITUTION, Washington, D. C.
 7 bird skins, *Chordeiles v. henryi*, (for examination).

DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ADAMS, W. H., Peoria, Ill.
 1 dead shrew, in the flesh.
 ARMOUR, A. V., Chicago.
 5,000 insects—Yucatan.
 BOOTH, A., PACKING CO., Chicago.
 1 fish, *Mola Mola*.
 CHALMERS, W. J., Chicago.
 2 spiders, 1 scorpion, 1 horned toad, 1 trap-door spider's nest, 1 rattlesnake skin, 1 centipede—British Guiana.
 CHERRIE, GEO. K., Field Columbian Museum.
 1 snake, *Thamnophis radix*—Chicago.
 CHERRIE, MRS. G. K., Chicago.
 2 horned toads, *Phrynosoma*, 1 land turtle, *Testudo*—Texas.
 CHIRPE, ROBERT, Chicago.
 Bat with three young, alive—Chicago.
 COOPER, E. R., Chicago.
 1 Grizzly bear, *Ursus horribilis*—Montana.
 CORY, PROF. C. B., Boston, Mass.
 19 mammal skins—Florida, Bahamas, Yucatan and Cuba.
 1 mounted puma, *Felis concolor* L.
 DORR, GEO. J., Chicago.
 1 tooth of elephant.
 FIELD COLUMBIAN MUSEUM.
 Collected on Owen F. Aldis Expedition, by O. P. Hay:
 686 fishes, 2 dried sponges, 2 egg-cases of sharks, 180 shells of mollusks, 77 crabs, 10 shrimps, 2 young alligators, 2 ascidians, 16 sea-urchins, 2 masses of egg-cases of mollusks, 15 star-fishes, 4 skins of sharks, 1 skin of saw-fish, 2 skins of cow-nosed rays, 1 jaw of shark, 1 rough skeleton of fish, 1 string of egg-cases of mollusks, 1 mass of oyster-shells on root of mangrove—Florida.
 Collected by G. K. Cherie:
 4 skins and skulls of *Lepus*, 3 skins and skulls of *Spermophilus*—Corpus Christi, Texas.
 Purchases:
 2,669 mammal skins and skulls, (purchased from W. W. Price, Palo Alto, Cal.).

- 3 proboscis monkey skins and a baby ourang, (purchased from C. E. Akeley, Field Columbian Museum).
- 5 antelopes (1 mounted, 4 skins)—Africa, (purchased from F. W. Franklin, New York City).
- 1 skin of *Equus somalicus*, 2 skins of *Antelope pelzelni* male and female —Africa, (purchased from E. Gerard & Son, London, England).
- 13 turtles — North Carolina, (purchased from H. H. & C. S. Brimley, Raleigh, N. C).
- 1 albino skunk, mounted—Montana, (purchased from Luke Dillon, Columbia Falls, Mont).
- Skin and skeleton of black wolf—Manitoba, (purchased from A. C. Foster, Winnipeg, Manitoba).
- 1 pickerel, *Lucius lucius*—Green Bay, (purchased from S. S. Lewis, Chicago).
- 10 large mammal skins — Siberia, Africa, Japan, Corsica, (purchased from J. F. G. Umlauff, Hamburg, Germany).
- 1 white-tailed gnu, *Connochaetus taurinus*, (purchased from Rowland Ward & Co., London, England).
- GILL, DR. GEORGE M., Chicago.
- 1 butterfly, *Papilio ajax*.
- 1 Hemiptera, *Emesa longipes*.
- GILMAN, J. C., Field Columbian Museum.
- Shell of snail (*helix*)—Chicago.
- GUATEMALA COMMISSION, World's Columbian Exposition.
- Collection of reptiles and insects—Département of Peten, Guatemala.
- HAY, O. P., Field Columbian Museum.
- 1 rattlesnake, *Crotalus horridus*.
- 2 turtles, *Macroclémis concentric*.
- 1 skull of dog.
- HAY, W. P., Washington, D. C.
- 1 rough green snake, *Cyclophis vestinus*—Washington, D. C.
- HUME, J. A., Field Columbian Museum.
- 4 fishes.
- HUTCHINSON, C. L., Chicago.
- 3 boxes of sponges—Greece, (for examination).
- KIMBALL, J. A., Astabula, Florida.
- 1 shed skin of the diamond rattlesnake.
- MINNEAPOLIS ACADEMY OF NATURAL SCIENCES, Minneapolis, Minn.
- Deer skin—Phillipine Islands, (for examination).
- PEABODY, DR. S. H., Chicago.
- 1 dragon-fly, *Æschna julia*—Chicago.
- PENSE, GEO. B., Cape Gracias, Nicaragua.
- 1 fish, *Symbranchus Marmoratis*—Nicaragua.
- PHILADELPHIA ACADEMY OF SCIENCES, Philadelphia, Pa.
- 23 shells.
- RINGLING BROTHERS.
- Skeleton and skin of female giraffe, *Camelopardalis giraffa* Schreber.
- Skin of boa constrictor.
- RUSSELL, MRS. ANNE M., Ravinia, Ill.
- 1 box of shells—California.
- RYAN, P. T., Chicago.
- 1 soft-shell turtle.
- RYERSON, MARTIN A., Chicago.
- 6 orang-outangs.
- 5 proboscis monkeys—Borneo.
- 12 deer skins—Phillipine Islands.
- 13 skulls—Borneo.
- 700 unmounted butterflies, *Lepidoptera*—Darjeeling, India.
- 1 porcupine—Phillipine Islands.

- SMITH, ERNEST N., Chicago.
1 skin of fish, *Stereolepis gigas*—Santa Catalina Island, Cal.
- TIFFANY & CO., New York, N. Y.
1 fruit bat, (for examination).
- U. S. NATIONAL MUSEUM, Washington, D. C.
105 specimens of fishes.
- WHEELER, DR. WM. M., University of Chicago.
1 turtle, *Emys blandingii* Holbrook—West Pullman, Ill.
- WISWALL, MRS. E. C., Kenosha, Wis.
38 polished shells, (for examination).
- WITTER, C. ORVILLA, South Bend, Ind.
2 snakes, *Ophibolus doliatius*, *Eutainia saurita*, South Bend, Ind., (for examination).

THE LIBRARY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

Books, Pamphlets and Serials.

- ACHELIS, DR. TH., (the author), Bremen, Germany.
Moderne Völkerrkunde, (exch.)
- ALABAMA GEOLOGICAL SURVEY, Montgomery, Ala.
Bulletin no. 4, (exch.)
- ALABAMA INDUSTRIAL AND SCIENTIFIC SOCIETY, Tuscaloosa, Ala.
Proceedings, 1891-96, (exch.)
- ALDRICH, HON. J. FRANK, Chicago.
U. S. Coast and Geodetic Survey. Report, 1891, parts 1-2.
U. S. Department of Agriculture. Report of Chief of Weather Bureau, 1891-92.
U. S. Department of Agriculture. Report of Secretary, 1892.
Heyl, L.: U. S. duties on imports, 1891.
U. S. Treasury Department. The foreign commerce and navigation of U. S. 1893. Commerce of U. S. with European countries, 1790-1890. Report of Commissioner of Navigation, 1894.
U. S. Department of the Interior, Bureau of Education. Circular of information, nos. 2 and 4.
Immigration and passenger movement at the ports of U. S.
Illinois Bureau of Labor Statistics. Report, 1892.
U. S. Bureau of Ethnology: 4 pamphlets.
U. S. Geological Survey of the Territories. Final report, vol. 3, book 1.
International American Conference reports, 4 vols.
First Pan-American Medical Congress transactions, 2 vols.
International Prison Congress (3rd), Paris. Report of U. S. delegates.
American Historical Association. Annual report, 1894.
- ALLEN, E. P., Field Columbian Museum.
Anthony's Photographic Bulletin, vols. 1, 2 and 5.
Wilson's Photographic Magazine, vol. 22, no. 457.
The Photo Beacon, vol. 7, no. 5.
- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Salem, Mass.
Proceedings, vol. 44, (exch.)
- AMERICAN LIBRARY ASSOCIATION, Cleveland, O.
Concerning the American Library Association, 18th General Conference.
- AMERICAN MUSEUM OF NATURAL HISTORY, New York.
Bulletin, vol. 1, no. 6.
Bulletin, vol. 7, vol. 2, no. 4.
Annual report, 1895, (exch.)
- AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia, Pa.
Proceedings, 1893, (exch.)

- AMERICAN SOCIETY OF NATURALISTS, Boston, Mass.
Records, vol. 1, incomplete.
Records, vol. 2, current nos., (exch.)
- APACHE, ANTONIO, Field Columbian Museum.
Collection of 100 books and pamphlets, chiefly on the World's Columbian Exposition.
- ARIZONA AGRICULTURAL EXPERIMENT STATION, Tucson, Ariz.
Bulletin, 1896.
- ARTHUR, PROF. J. C. (the author), Lafayette, Ind.
Development of vegetable physiology.
The distinction between animals and plants.
Deviation in development due to the use of unripe seeds.
Delayed germination of cocklebur.
- ASIATIC SOCIETY OF BENGAL, Calcutta, India.
Annual address by the president, 1896.
Journal, vol. 65, part 1, no. 1, part 2, nos. 1 and 2.
Proceedings, nos. 1-3, 1896, (exch.)
- ASTOR LIBRARY, New York.
Annual report, 1894, (exch.)
- AUSTRALIAN MUSEUM, Sydney, Australia.
Records, vol. 2, no. 7, (exch.)
- BARBER, EDWIN ATLEE (the author), West Chester, Pa.
The Cartridge Porcelain Works.
The Museum, vol. 1, nos. 1-4.
- BASSETT, HELEN W., Chicago.
The Folk-lorist, vol. 1.
The Folk-lore Manual.
- BAUER, DR. MAX (the author), Marburg, Germany.
Das vorkommen und die gewinnung des rubins in Birma, with another pamphlet, (exch.)
- BEMENT, CLARENCE S. (the author), Philadelphia, Pa.
Third rough list of meteorites, (exch.)
- BERLIN KÖNIGLICHE MUSEEN, Berlin, Germany.
Nachtrag zum verzeichnis der verkäuflichen gipsabgüsse. 23 pamphlets, (exch.)
- BERLIN KÖNIGLICHE MUSEUM FÜR VÖLKERKUNDE, Berlin, Germany.
Etnologisches Notizblatt, heft. 2-3.
Ethische elementar gedanken, abth. 1-2.
Veröffentlichungen, vol. 4, no. 1.
Denkschöpfung umgeb. welt aus kosmog. vorstellungen, (exch.)
- BESSEY, PROF. C. E., Lincoln, Neb.
Contributions from the Botanical Department, University of Nebraska, new series, 1 to incl.
Reports, 1-3 of the Botanical Survey of Nebraska.
Sargent's studies of the forests of Japan, by the donor.
- BLACK DIAMOND COMPANY, Chicago.
Black Diamond, current nos.
- BLAIR, W. F., Chicago.
Le panthéon égyptien, by Paul Pierret.
- BOETTGER, FRED, Peoria, Ill.
Flora Peoriana (2 copies), by F. Brendel, (exch.)
- BORNTAEGER, GEBRÜDER, Berlin, Germany.
Die literatur des jahres 1892 über morphologie, systematik und verbreitung der phanerogamen.
- BOSTON MUSEUM OF FINE ARTS, Boston, Mass.
20th annual report, 1895.
Catalogue of a collection of etchings, by F. S. Haden, (exch.)

- BOSTON PUBLIC LIBRARY, Boston, Mass.
Annual report, 1895.
Monthly bulletin, 1896, (exch.)
- BOSTON SOCIETY OF NATURAL HISTORY, Boston, Mass.
Proceedings, vol. 26, vol. 27, parts 1-6.
Memoirs, vol. 5, nos. 1-2, (exch.)
- BOSTON TRANSIT COMMISSION, Boston, Mass.
First annual report, 1895.
- BOSTON UNIVERSITY, Boston, Mass.
Year book, vols. 22 and 23.
Annual report, 1895.
3 catalogues, (exch.)
- BOWDOIN COLLEGE, Brunswick, Me.
Address at the dedication of the Mary Frances Searles Science Building.
11 publications, catalogues, etc., (exch.)
- BREZINA, DR. A. (the author), Vienna, Austria.
Die meteoriten sammlung des K. K. Naturhist. Hofmuseums.
Ueber neuere meteorite.
- BRIDGEPORT PUBLIC LIBRARY, Bridgeport, Conn.
Catalogue of 2nd annual winter exhibition of paintings.
15th annual report, 1896, (exch.)
- BRINTON, DANIEL G. (the author), Media, Pa.
Relations of race and culture to degeneration of the productive organs in women, (exch.)
- BRITISH MUSEUM, London, England.
Guide to the mineral gallery.
Students' index to the collection of minerals.
Introduction to the study of minerals.
Introduction to the study of rocks.
Introduction to the study of meteorites.
List of the natural history publications, (exch.)
- BROOKLYN INSTITUTE, Brooklyn, N. Y.
7th year book (2 copies), 1894-95.
Prospectus for 1895-96, (exch.)
- BROOKLYN LIBRARY, Brooklyn, N. Y.
38th annual report, (exch.)
- BROWN UNIVERSITY, Providence, R. I.
Historical catalogue, 1764-94.
Catalogue, 1895-96, (exch.)
- BUENOS AIRES MUSEO NACIONAL, Buenos Aires, Argentine.
Anales, vol. 4, (exch.)
- BUDAPEST MAGYAR NEMZETI MUSEUM, Budapest, Hungary.
Termésgetrajzi Füzetek, vol. 19, parts 1-2, (exch.)
- BUFFALO LIBRARY, Buffalo, N. Y.
Annual report, nos. 52-60, 1888-96.
Laws.
Finding list, parts 1-3.
Additions, new series, nos. 48-78.
Index to classified subject catalogue, (exch.)
- BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, N. Y.
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- WATERTOWN FREE PUBLIC LIBRARY, Watertown, Mass.
28th annual report, 1895, (exch.)
- WELLESLEY COLLEGE, Wellesley, Mass.
Calendar, 1895-96, (exch.)
- WELLS, LIEUT. ROGER, JR., (the author), Washington, D. C.
English-Eskimo and Eskimo-English vocabularies.
Vocabulary of the Guaivo or Guahibo language, (typewritten).
- WESLEYAN UNIVERSITY, Middletown, Conn.
Annual catalogue, 1895-96.
Wesleyan University, Bulletin no. 18, (exch.)
- WEST VIRGINIA AGRIC. EXPERIMENT STATION, Morgantown, W. Va.
Bulletin, current nos.
- WESTERN ELECTRICAL CO., Chicago.
Western Electrician, current nos.
- WESTERN RESERVE UNIVERSITY, Cleveland, O.
Catalogue, 1895-96.
- WESTERN UNION TELEGRAPH CO., New York.
Annual report, 1895.
- WHITMAN, PROF. C. O. (the author), Chicago.
Biological lectures, 3 vols.
- WIEN K. K. HOFBIBLIOTHEK, Wien, Austria,
Instructionen für die katalogs arbeiten, with another pamphlet, (exch.)
- WIEN K. K. Hofmuseum, Wien, Austria.
Jahresbericht, 1895, (2 copies), (exch.)
- WILLEY, HENRY (the author), New Bedford, Mass.
Enumeration of the lichens found in New Bedford.
Notes on some North American species of *Parmelia*, (exch.)
- WILLIAMS COLLEGE, Williamstown, Mass.
Catalogue, 1895-96.
President's report, 1895-96.
William's College catalogue of north polar stars, (exch.)
- WINDSOR & KENFIELD PUBLISHING CO., Chicago.
Brick, current nos.
Street Railway Review, current nos.
- WISCONSIN STATE HISTORICAL SOCIETY, Madison, Wis.
Historical collections, vol. 13.
Proceedings, 43rd annual meeting, (exch.)
- WISCONSIN AGRIC. EXP. STATION, Madison, Wis.
12th annual report.
Bulletin, current nos.
- WISCONSIN, UNIVERSITY Madison, Wis.
Bulletins: Economic series, vol. 1, nos. 1 and 2.
Bulletins: Engineering series, vol. 1, nos. 1-6.
Bulletins: Science series, vol. 1, nos. 1-4, (exch.)
- WORCESTER FREE PUBLIC LIBRARY, Worcester, Mass.
36th annual report.
Second supplement to catalogue.
Additions to the library, current nos., (exch.)
- WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass.
26th annual catalogue, 1896, (exch.)
- WORLD'S COLUMBIAN COMMISSION, Washington, D. C.
Final report of Executive Committee on Awards.
Supplement, final report.
- WYOMING UNIVERSITY AGRIC. COLLEGE AND EXP. STATION, Cheyenne, Wyo.
Fifth annual report, 1895.
Bulletin, current nos.

WYOMING UNIVERSITY, Laramie, Wyo.

Petroleum series, bulletin no. 1.

Catalogue, 1895-96, (exch.)

YALE UNIVERSITY, New Haven, Conn.

Report, 1895.

Catalogue, 1895-96, (exch.)

ZEISS, CARL, Jena, Germany.

Set of catalogues, (5).

ZULAUF & CO. G., Zürich, Switzerland.

1 pamphlet, (reprint).

Set of catalogues.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

ARMOUR, A. V., Chicago.

24 negatives of Yucatan ruins, (transferred from Department of Anthropology).

BALTIMORE & OHIO R. R.

20 negatives of engines, (transferred from Division of Transportation).

FIELD COLUMBIAN MUSEUM.

Negatives made by Section of Photography from April 1, 1895, to May 1, 1896, to illustrate publications, lectures, newspaper articles, etc., 607.

Made by O. C. Farrington:

72 views of mines, peoples, etc.—Mexico.

17 geological views—Maine and Massachusetts.

1 negative of glacial drift—Drainage Canal, Cook County, Ill.

1 negative of glacial boulder pocket.

Made by C. F. Millspaugh:

45 views of ruins, trees, etc.—Yucatan.

11 views along Drainage Canal—Cook Co., Ill.

12 views in and around Clarksdale, Miss.

56 negatives of trees—Mt. Carmel, Ill.

7 views of forest trees, etc.—Mississippi.

6 negatives of trees—Blue Island, Ill.

Made by E. P. Allen:

44 views along Drainage Canal—Cook Co., Ill.

Purchases:

6 portraits of Alaskan Eskimo, male and females, (purchased from Dr. Franz Boas).

GREEN, C. H., Denver, Col.

32 negatives of mummies, baskets, caves, etc., (transferred from Department of Anthropology).

INGLIS, JAMES, Chicago.

11 negatives of Egyptian scenes and mummies.

MILLSPAUGH, C. F., Field Columbian Museum.

3 views of Yucatan ruins in World's Columbian Exposition Grounds.

MOOREHEAD, WARREN K., Columbus, Ohio.

67 views among the Indian mounds of Ohio, (transferred from Department of Anthropology).

SOUGERSON, H. E., Chicago.

38 negatives of views in Museum made to illustrate Museum article in "The Interior," (transferred from Department of Anthropology).

STEERE, J. B., Ann Arbor, Mich.

24 negatives of mammals, skulls, etc., (transferred from Department of Zoology).

THOMPSON, EDWARD H., Merida, Yucatan.

16 negatives of ruins in and around Merida, Yucatan.

U. S. BUREAU OF AMERICAN REPUBLICS, Washington, D. C.

247 negatives of original Columbus documents, (transferred from Department of History).

ARTICLES OF INCORPORATION.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSSEN, *Secretary of State*:

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO, is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,
Secretary of State.

TO HON. WILLIAM H. HINRICHSSEN,

" SECRETARY OF STATE:
SIR:

We, the undersigned Citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations" approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."
2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archeology, Science, and History.
3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.
4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, Geo. R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, Geo. M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS, }
COOK COUNTY. } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

(Seal)

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS.

ARTICLE I.

MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons and Honorary Members.

SEC. 2. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be ground of forfeiture of annual membership.

This said annual membership shall entitle the member to:

First.—Free admittance for himself and family to the Museum on any day.

Second.—Ten tickets every year admitting the bearer to the Museum on pay days.

Third.—A copy of every publication of the Museum sold at the entrance door, and to the annual reports.

Fourth.—Invitations to all receptions, lectures or other entertainments which may be given at the Museum.

SEC. 3. The corporate members shall consist of the persons named in the articles of association, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of association shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as corporate members, shall, within ninety days of their respective election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. The annual dues of corporate members shall be five dollars (\$5.00) after the first year of membership, and no one shall exercise the rights of a corporate member until his dues are paid; and a delinquency of six months in the payment of annual dues shall be ground for forfeiture of corporate membership. Only corporate members shall be eligible to the office of Trustee.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars at any one time, shall upon the unanimous vote of the trustees, become a life member. Life members shall be exempt from all dues.

SEC. 5. Patrons shall be chosen by the Board of Trustees upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and by virtue of their election as patrons shall also be corporate members.

SEC. 6. Honorary members shall be chosen from among persons who have rendered eminent service to science, art or mechanics. They shall be chosen by

a vote of the Trustees, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues. In commemoration of the 14th day of October honorary members shall not be more than fourteen in number at any one time.

SEC. 7. All members of whatever class shall be eligible to appointment upon committees other than the Executive Committee.

ARTICLE II.

OFFICERS.

SECTION 1. The respective members of the Board of Trustees now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board of Trustees at any regular meeting.

SEC. 2. The other officers shall be President, two Vice-Presidents, Secretary and Treasurer, and an Executive Committee of four persons, who shall be chosen by ballot by the Board of Trustees from their own number as early as practicable after the annual meeting in each year. The President shall be *ex officio* a member of the Executive Committee, in addition to the other four members. The Secretary and Treasurer may, or may not, be the same person, and the Secretary may, or may not, be a corporate member.

Any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The President shall appoint from among the Trustees a Committee on Finance, a Committee on Property, an Auditing Committee, and a Committee on Buildings and Grounds, who shall serve during the pleasure of the Board.

SEC. 4. The officers shall perform such duties as ordinarily appertain to their respective offices, and such other duties as the Board of Trustees may from time to time devolve upon them. The Treasurer shall give bond in such amount and with such surety as shall be approved by the Executive Committee, and shall disburse the funds of the Museum only in accordance with the directions of the Executive Committee, upon the signature and counter-signature of such officers as the Executive Committee shall empower thereto.

SEC. 5. The Executive Committee shall have full control of the affairs of the Museum, under the general supervision of the Board of Trustees.

ARTICLE III.

MEETINGS.

SECTION 1. In commemoration of the discovery of America by Christopher Columbus, the annual meeting of the corporate members shall be held on the 14th day of October in each year, except when that day falls on a Sunday, and then upon the Monday following. At such meetings the corporate members shall transact such business as may properly come before the meeting. Special meetings of the corporate members shall be called at any time by the Secretary upon

written request of twenty corporate members. In such case thirty days' notice by mail shall be given to corporate members of the time, place and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the first Monday after the 14th day of October, and upon the last Monday of January, April and July of each year. Special meetings may be called by the President at any time upon reasonable notice by mail, and shall be called upon the written request of three Trustees. Five Trustees shall constitute a quorum.

ARTICLE IV.

AMENDMENTS.

SECTION 1. These By-Laws may be amended at any regular meeting of the Trustees by a two-thirds' vote of all the members present, provided the amendment shall have been proposed at the last regular meeting preceding, or shall be recommended by the Executive Committee.

LIFE MEMBER.

By the payment of five hundred dollars.

W. J. CHALMERS.

HONORARY MEMBERS.

CHARLES B. CORY.

MARY D. STURGES.

EDWARD E. AYER.

HARLOW N. HIGINBOTHAM.

GEORGE M. PULLMAN.

PATRONS.

ALLISON V. ARMOUR.

FREDERICK J. V. SKIFF.

WILLARD A. SMITH.

WILLIAM I. BUCHANAN.

CORPORATE MEMBERS.

GEORGE E. ADAMS	HUNTINGTON W. JACKSON
OWEN F. ALDIS	ARTHUR B. JONES
ALLISON V. ARMOUR	E. G. KEITH
PHILIP D. ARMOUR	HERMAN H. KOHLSAAT
EDWARD E. AYER	BRYAN LATHROP
WM. T. BAKER	L. Z. LEITER
A. C. BARTLETT	E. B. McCAGG
JOHN C. BLACK	A. C. McCLURG
WATSON F. BLAIR	JOHN McCONNELL
ELIPHALET W. BLATCHFORD	CYRUS H. McCORMICK
THOS. B. BRYAN	ROBERT McMURDY
W. I. BUCHANAN	ANDREW McNALLY
EBENEZER BUCKINGHAM	GEORGE MANIERRE
DANIEL H. BURNHAM	JOHN J. MITCHELL
EDWARD B. BUTLER	ROBERT W. PATTERSON
JOHN M. CLARK	FERD W. PECK
W. J. CHALMERS	ANDREW PETERSON
H. C. CHATFIELD-TAYLOR	P. S. PETERSON
ANDREW CRAWFORD	J. IRVING PEARCE
WM. E. CURTIS	GEO. M. PULLMAN
GEORGE R. DAVIS	NORMAN B. REAM
SIDNEY C. EASTMAN	MARTIN A. RYERSON
JAMES W. ELLSWORTH	GEO. SCHNEIDER
CHAS. FITZSIMONS	F. J. V. SKIFF
LYMAN J. GAGE	JOSEPH STOCKTON
HENRY H. GETTY	BYRON L. SMITH
FRANK W. GUNSAULUS	WILLARD A. SMITH
C. F. GUNTHER	A. A. SPRAGUE
WM. E. HALE	MELVILLE E. STONE
WM. R. HARPER	EDWIN WALKER
AZEL F. HATCH	R. A. WALLER
FRANKLIN H. HEAD	JOHN R. WALSH
H. N. HIGINBOTHAM	NORMAN WILLIAMS
CHARLES L. HUTCHINSON	

DECEASED.

JAMES W. SCOTT

GEORGE F. BISSELL

ANNUAL MEMBERS.

ABEL, JONATHAN
ADAMS, CYRUS H.
ADLER, DANKMAR
ALLEN, W. I.
ALLERTON, ROBERT H.
ALLERTON, MRS. S. W.
AMBERG, WILLIAM A.
ARMOUR, MRS. BARBARA
ARMOUR, GEORGE A.
ARNOLD, J. B.

BAILEY, EDWARD P.
BAILEY, E. W.
BAKER, ALFRED L.
BAKER, FRANK
BAKER, SAMUEL
BALDWIN, WILLIS M.
BANE, OSCAR F.
BANGA, DR. HENRY
BARNES, CHARLES J.
BARNES, F. A.
BARNHART, ARTHUR M.
BARRELL, JAMES
BARRETT, S. E.
BARTLETT, WILLIAM H.
BARTLETT, JOSIAH C.
BATCHELDER, A.
BATCHFILER, W.
BEACH, F. G.
BEAUVAIS, E.
BECK, CHAS. A.
BECKER, A. G.
BEECHER, MRS. JEROME
BEIDLER, FRANCIS
BEIDLER, H. A.
BEIFELD, JOSEPH
BELDEN, J. S.
BENNETT, THOMAS
BILLINGS, C. K. G.
BILLINGS, DR. FRANK
BINGHAM, A. E.
BIRKHOFF, GEO. JR.

BLACKMAN, W. L.
BLACKSTONE, T. B.
BLAINE, MRS. EMMONS
BLAIR, CHAUNCEY J.
BLAIR, HENRY A.
BLAIR, LYMAN
BLAIR, WILLIAM
BLANCHARD, WILLIAM
BLISS, SAMUEL E.
BLODGETT, H. W.
BLUM, EDGAR C.
BOAL, CHAS. T.
BOLTON, JAMES
BONFIELD, JOHN
BONNEY, CHARLES C.
BOOTH, A.
BOOTH, H. W.
BOOTH, W. VERNON
BORDEN, JAMES U.
BORDEN, JOHN
BOTSFORD, HENRY
BOUTON, N. S.
BOUTON, C. B.
BRADLEY, CHARLES FRED.
BRADLEY, J. HARLEY
BRADWELL, JAMES B.
BRAINERD, E. R.
BRAUN, GEORGE P.
BREGA, CHAS. W.
BREMNER, DAVID F.
BRENOCK, JOHN
BRIGGS, CLINTON
BROOKS, JAMES C.
BROOKS, J. W.
BROWN, GEORGE F.
BROWN, JOHN B.
BROWN, JOHN H.
BROWN, WILLIAM L.
BRYANT, HENRY W.
BURKHARDT, H. S.
BURLEY, ARTHUR G.
BURLEY, AUGUSTUS H.

BURLEY, CLARENCE A.
BURLEY, FRANK E.
BURNET, WM. H.
BURNHAM, AUSTIN A.
BYRAM, A.

CABLE, R. R.
CANNELL, S. WILMER
CARPENTER, A. A.
CARPENTER, MYRON J.
CARTON, L. A.
CHANDLER, C. C.
CHANDLER, FRANK R.
CHAPIN, MRS. M. A.
CHAPMAN, MRS. J. DEERE
CHAPPELL, C. H.
CHASE, S. B.
CHENEY, C. C.
CLARK, JONATHAN
CLARK, W. D.
CLARKE, CLINTON C.
CLIFF, CAPT. JOHN
CLOUD, JNO. W.
COBB, S. B.
COFFIN, C. H.
COMAN, SEYMOUR
COMSTOCK, WILLIAM C.
CONKLING, ALLEN
CONNELL, CHARLES J.
CONOVER, CHARLES H.
COOLBAUGH, MRS. ADDIE R.
COOLIDGE, CHAS. A.
COONLEY, MRS. JOHN C.
CORNEAU, D. E.
CORWITH, CHARLES R.
COWAN, W. P.
COY, IRUS
COX, ALFRED J.
COX, EUGENE R.
CRITCHELL, R. S.
CROSBY, WILLIAM HOWARD
CUDAHY, JOHN
CULVER, MRS. CHARLES E.
CUMMINGS, E. A.
CURTIS, D. H.
CUSTER, J. R.

DAL, JOHN W.
DAMSEL, W. H.
DAVIS, CHARLES E.
DAVIS, LEWIS H.

DAY, ALBERT M.
DAY, CHAPIN A.
DAYTON, MELVILLE E.
DEAN, THAD
DEERING, WILLIAM
DE KOVEN, JOHN
DELANO, F. A.
DEMMLER, K.
DETMER, HENRY
DEWEY, DAVID B.
DICK, A. B.
DILLMAN, L. M.
DOANE, J. W.
DOBBINS, THOMAS S.
DODGE, G. E. P.
DORR, GEORGE J.
DOWNS, C. S.
DUDDLESTON, GEORGE
DUMMER, W. F.
DUNHAM, MISS M. V.
DURAND, H. C.
DURAND, ELLIOTT
DWIGHT, JOHN H.

EARNSHAW, E.
EDMUNDS, ABRAHAM
EDWARDS, J. A.
EGAN, WILEY M.
EISENDRATH, W. N.
ELLIOTT, W. S., JR.
ELTONHEAD, E. Y.
EMMERICH, CHAS.
ETHERIDGE, MRS. J. H.
EVANS, ORRIN L.
EWING, WILLIAM G.

FAIR, R. M.
FAITHORNE, J. N. A.
FARGO, CHAS.
FARNSWORTH, GEORGE
FARRAR, MRS. A.
FARWELL, JOHN V.
FAY, C. N.
FEATHERSTONE, A.
FELSENTHAL, H.
FERGUSON, B. F.
FERGUSON, CHAS. H.
FISCHER, FREDERICK
FISH, STUYVESANT
FISHER, L. G.
FLANNERY, JOHN L.

FLERSHEM, LEM W.
FLOWER, JAMES M.
FORD, J. S.
FOREMAN, EDWIN G.
FOREMAN, OSCAR G.
FORSYTH, ROBERT
FOWLER, E. M.
FRANK, HENRY L.
FRANK JOSEPH
FRANK, MAX
FRANKENTHAL, LESTER E., M.D.
FRASHER, JOHN E. L.
FREER, NATHAN M.
FREES, B. M.
FREYTAG, MORITZ
FRY, HENRY T.
FULGHUM, B. W.
FULLER, O. F.
FURST, CONRAD

GANS, LEOPOLD
GANS, SAMUEL
GARTZ, ADOLPH F.
GATES, J. W.
GAYLORD, FREDERIC
GEROW, F. P.
GIBBS, JAMES S.
GIFFORD, C. E.
GIFFORD, I. CUSHMAN
GLESSNER, J. J.
GOLDSTEIN, ADOLPH
GOODRICH, A. W.
GORDON, EDWARD K.
GORMULLY, R. PHILIP
GREEN, E. H. R.
GREEN, O. B.
GREY, CHARLES F.
GREY, WM. L.
GRIFFIN, T. A.
GRISWOLD, E. P.
GROSS, S. E.
GUION, GEO. MURRAY
GUNNING, ROBERT J.
GURLEY, W. W.

HAMBLETON, C. J.
HAMBLETON, EARL L.
HAMILTON, HENRY E.
HAMILTON, I. K.
HANECY, ELBRIDGE
HANLON, JOHN J.

HANSON, DAVID N.
HARAHAN, J. T.
HARBECK, EUGENE
HARDING, AMOS J.
HARRIS, D. J.
HARRIS, GEO. B.
HARRIS, JOHN F.
HARRIS, MADISON R.
HARRIS, N. W.
HASKELL, FREDERICK T.
HEARD, DWIGHT BANCROFT
HEATH, ERNEST W.
HELMER, FRANK A.
HEMMELGARN, H.
HENNING, FRANCIS A., M. D.
HENRY, GEO. W.
HERTLE, LOUIS
HIBBARD, F. V. S.
HINES, EDWARD
HITCHCOCK, R. M.
HOLDOM, JESSE
HOLT, D. R.
HOLT, GEO. H.
HOPKINS, JOHN P.
HORNER, ISAAC
HOSKINS, WM.
HOUGH, CHAS. R.
HOUGHTELING, JAMES L.
HOWARD, FREDERICK
HOWLAND, WALTER M.
HUGHITT, MARVIN
HUNT, JAMES A.
HUTCHINSON, MRS. B. P.
HYDE, JAMES NEVINS

ILIFF, WM. H.
INGALS, E. FLETCHER
INGALS, EPHRAIM, M. D.
INSULL, SAMUEL
ISBESTER, T.
ISHAM, EDWARD S.

JANES, JOHN J.
JEFFERY, THOMAS B.
JENKINS, GEO. H.
JENKINS, T. R.
JENKINS, WILTON A.
JOHNSON, J. M.
JOHNSTON, D. P.
JONES, J. S.
JUDAH, NOBLE B.

JUDSON, C. E.
JUDSON, HENRY PRATT

KAMMERER, F. G.
KAVANAGH, CHARLES J.
KEEFER, LOUIS
KEELER, HERVEY E.
KEENE, JOSEPH
KEEP, ALBERT
KEEP, HENRY
KEEP, WILLIAM F.
KEITH, W. SCOTT
KELLEY, DAVID
KELLEY, WILLIAM E.
KELLOGG, MRS. C. P.
KELLOGG, JAMES B.
KENNETT, FRANCIS J.
KENT, THOS.
KEWLEY, J. R., M. D.
KIMBALL, EUGENE S.
KIMBALL, GEO. F.
KIMBALL, MRS. MARK
KIMBALL, W. W.
KING, HENRY W.
KIRCHBERGER, S. H.
KLEINE, HENRY
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WILMARTH, MRS. H. M.	YOUNG, CARYL
WILSON, GEORGE C.	YOUNG, WM. S.

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